



Parts & Service Manual

Serial Number Range

SuperliftTM
Advantage

from serial number
9594-101 to 5501-15094
and from SLA02-15095
to SLA04-25258

Part No. 32283
Rev A6
August 2007

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Specifications

Model	SL-5	SL-10	SL-15	SL-20	SL-25
Height-Stowed	78 ¹ / ₂ in 199 cm	78 ¹ / ₂ in 199 cm	78 ¹ / ₂ in 199 cm	78 ¹ / ₂ in 199 cm	78 ¹ / ₂ in 199 cm
Width Standard Base	31 ¹ / ₂ in 80 cm	31 ¹ / ₂ in 80 cm	31 ¹ / ₂ in 80 cm	31 ¹ / ₂ in 80 cm	31 ¹ / ₂ in 80 cm
Width - stabilizers lowered Standard Base	78 ⁵ / ₈ in 185 cm	78 ⁵ / ₈ in 185 cm	78 ⁵ / ₈ in 185 cm	78 ⁵ / ₈ in 185 cm	78 ⁵ / ₈ in 185 cm
Width-Min Straddle Base	31 ¹ / ₂ in 80 cm	31 ¹ / ₂ in 80 cm	31 ¹ / ₂ in 80 cm	NA	NA
Width-Max Straddle Base	58 in 147 cm	58 in 147 cm	58 in 147 cm	NA	NA
Length-Stowed	29 in 74 cm	29 in 74 cm	29 in 74 cm	29 in 74 cm	31 in 79 cm
Length - Operating	57 ¹ / ₂ in 146 cm	57 ¹ / ₂ in 146 cm	72 ¹ / ₂ in 184 cm	80 ¹ / ₂ in 204 cm	80 ¹ / ₂ in 204 cm
Ground Clearance	2 in 50.8 mm	2 in 50.8 mm	2 in 50.8 mm	2 in 50.8 mm	2 in 50.8 mm
Load Capacity at 18" load center	1000 lbs 454 kg	1000 lbs 454 kg	800 lbs 363 kg	800 lbs 363 kg	650 lbs 295 kg
Net Weight - Standard Base (no load handling attachment)	215 lbs 97.5 kg	260 lbs 117.9 kg	317 lbs 143.8 kg	405 lbs 183.7 kg	450 lbs 204.1 kg
Net Weight - Straddle Base (no load handling attachment)	258 lbs 117.0 kg	303 lbs 137.4 kg	360 lbs 163.3 kg	NA	NA
Load Handling Attachments	Length	Width	Depth	Net Weight	
Standard Forks	27 ¹ / ₂ in 70 cm	23 ¹ / ₂ in 60 cm	2 ¹ / ₂ in 6.5 cm	38 lbs	17.2 kg
Adjustable Forks	27 ¹ / ₂ in 70 cm	11 ¹ / ₂ in to 30 in 29 cm to 76 cm	2 ¹ / ₂ in 6.5 cm	52.5 lbs	23.8 kg
Flat Forks	32 in 81 cm	16 in to 31 in 41 cm to 79 cm	1 ¹ / ₂ in 4 cm	73 lbs	33.1 kg
Boom	18 in to 42 in 46 cm to 107 cm	1 ¹ / ₂ in 4 cm	6 ¹ / ₂ in 16 cm	34.5 lbs	15.6 kg
Vertical Barrel Stacker	21 in 53 cm	29 in 74 cm	NA	50.5 lbs	22.9 kg
Rotating Barrel Handler	29 in 74 cm	31 in 79 cm	NA	85 lbs	38.6 kg
Pipe Cradle	27 ¹ / ₂ in 70 cm	24 1 ¹ / ₂ in 63 cm	6 in 11.5 cm	10 lbs	4.5 kg
Load Platform	27 ¹ / ₂ in 70 cm	23 ¹ / ₂ in 60 cm	21 ¹ / ₂ in 6.5 cm	26.5 lbs	12.0 kg

SPECIFICATIONS

Dimensions - Operating		SL-5	SL-10	SL-15	SL-20	SL-25
Standard Forks	forks down	4 ft 10 ^{1/2} in 1.5 m	9 ft 9 in 3 m	14 ft 7 ^{1/2} in 4.5 m	19 ft 6 in 6 m	24 ft 4 in 7.4 m
	forks up	6 ft 7 in 2 m	11 ft 5 ^{1/2} in 3.5 m	16 ft 4 in 5 m	21 ft 2 ^{1/2} in 6.5 m	26 ft 1 ^{1/2} in 7.9 m
	forks down	4 ft 10 ^{1/2} in 1.5 m	9 ft 9 in 3 m	14 ft 7 ^{1/2} in 4.5 m	19 ft 6 in 6 m	24 ft 4 in 7.4 m
	forks up	6 ft 7 in 2 m	11 ft 5 ^{1/2} in 3.5 m	16 ft 4 in 5 m	21 ft 2 ^{1/2} in 6.5 m	26 ft 1 ^{1/2} in 7.9 m
Flat Forks		4 ft 10 ^{1/2} in 1.5 m	9 ft 9 in 3 m	14 ft 7 ^{1/2} in 4.5 m	NA	NA
Boom		5 ft 10 ^{1/2} in 1.8 m	10 ft 9 in 3.3 m	15 ft 7 ^{1/2} in 4.8 m	20 ft 6 in 6.3 m	25 ft 4 in 7.7 m
Note: measured from ground to bottom of shackle						
Vertical Barrel Stacker (24 Load Center)	30 gallon	4 ft 1.2 m	8 ft 10 in 2.7 m	13 ft 9 in 4.2 m	NA	NA
	55 gallon	3 ft 10 in 1.2 m	8 ft 8 in 2.6 m	13 ft 7 in 4.1 m		
Note: measured from ground to bottom of barrel						
Rotating Barrel Handler		55 gallon	3 ft 10 in 1.2 m	8 ft 8 in 2.6 m	13 ft 7 in 4.1 m	NA
Note: measured from ground to bottom of barrel						
Load Platform	forks down	4 ft 10 ^{1/2} in 1.5 m	9 ft 9 in 3 m	14 ft 7 ^{1/2} in 4.5 m	19 ft 6 in 6 m	24 ft 4 in 7.4 m
	forks up	6 ft 7 in 2 m	11 ft 5 ^{1/2} in 3.5 m	16 ft 4 in 5 m	21 ft 2 ^{1/2} in 6.5 m	26 ft 1 ^{1/2} in 7.9 m
	forks down	4 ft 10 ^{1/2} in 1.5 m	9 ft 9 in 3 m	14 ft 7 ^{1/2} in 4.5 m	19 ft 6 in 6 m	24 ft 4 in 7.4 m
	forks up	6 ft 7 in 2 m	11 ft 5 ^{1/2} in 3.5 m	16 ft 4 in 5 m	21 ft 2 ^{1/2} in 6.5 m	26 ft 1 ^{1/2} in 7.9 m
Note: can be used with standard forks and adjustable forks only						
Pipe Cradle: handles round objects up to 30 in (76 cm) in diameter						
Note: can be used with standard forks and adjustable forks only (see above for working heights)						
Non-marking Fork Option						
Note: can be used with standard forks and adjustable forks only (see above for working heights)						
Fork Extension Option						
Note: can be used with standard forks and adjustable forks only (see above for working heights)						

SPECIFICATIONS

Bolt Torque Specifications

Size	Threads	SAE Grade 5 Bolts			SAE Grade 8 Bolts		
		Torque - Dry inch-pounds	Torque - Dry foot-pounds	Torque - Dry Newton meters	Torque - Dry inch-pounds	Torque - Dry foot-pounds	Torque - Dry Newton meters
10	24	43		5	60		7
	32	49		6	68		8
1/4	20	96		11	144		16
	28	120		14	168		19
5/16	18		17	23		25	34
	24		19	28		25	34
3/8	16		30	41		45	61
	24		35	48		50	68
7/16	14		50	68		70	95
	20		55	75		80	109
1/2	13		75	102		110	149
	20		90	122		120	163
9/16	12		110	149		150	204
	18		120	163		170	231
5/8	11		150	204		220	298
	18		170	231		240	326
3/4	10		260	353		380	515
	16		300	407		420	570
7/8	9		430	583		600	814
	14		470	637		660	895
1	8		640	868		900	1221
	12		700	949		1000	1356

Torque specifications for lubricated bolts are 25% less than dry torque specifications for each bolt size.

These bolt torque specifications are for general use only. Specification may vary depending on application of bolt.



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Scheduled Maintenance Inspections



Observe and Obey:

- Maintenance inspections shall be completed by a person trained and qualified on the maintenance of this machine.
- Scheduled maintenance inspections shall be completed daily, quarterly and annually as specified on the maintenance inspection report.

WARNING

Failure to properly complete each inspection when required may result in death, serious injury or substantial machine damage.

- Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunction before operating machine.
- Keep records on all inspections for three years.
- Machines that have been out of service for a period longer than 3 months must complete the quarterly inspection.

About This Section

Schedule

There are three types of maintenance inspections that must be performed according to a schedule—daily, quarterly and annually. To account for repeated procedures, the Maintenance Tables and the Maintenance Inspection Report have been divided into three subsections—A, B, C. Use the following chart to determine which group(s) of procedures are required to perform a scheduled inspection.

Inspection	Table or Checklist
Daily	A
Quarterly (every 150 hours or three months)	A + B
Annual	A + B + C

Maintenance Tables

The maintenance tables contained in this section provide summary information on the specific physical requirements for each inspection.

Complete step-by-step instructions for each scheduled maintenance procedure are provided in section 4, *Scheduled Maintenance Procedures*.

Maintenance Inspection Report

The maintenance inspection report contains checklists for each type of scheduled inspection.

Make copies of the Maintenance Inspection Report to use for each inspection. Keep records on all inspections for three years.

Maintenance Tables

Table A

		Tools are required	New parts required	Dealer service suggested
A-1	Inspect the Operator's Manual			
A-2	Inspect the Decals and Placards			
A-3	Inspect for Damage, Loose or Missing Parts			
A-4	Check the Winch Operation			
A-5	Inspect the Columns for Damage			
A-6	Inspect the Cable and Cable Pulleys			
A-7	Check the Mast for Proper Sequencing			
A-8	Inspect the Casters and Wheels			

Table B

B-1	Inspect the Column Hold Downs			
B-2	Inspect All Welds			
B-3	Clean the Columns			
B-4	Inspect and Lubricate the Winch			
B-5	Inspect and Lubricate the Rotating Barrel Handler			

MAINTENANCE TABLES

Table C

		Tools are required	New parts required	Dealer service suggested
C-1	Lubricate the Casters and Wheels			
C-2	Inspect the Mast Assembly for Wear			
C-3	Replace the Winch Friction Disks			 
C-4	Inspect the Safety Brake System			
C-5	Inspect the Painted Surfaces			

Maintenance Inspection Report

Model

Serial number

Date

Machine owner

Inspected by (print)

Inspector signature

Inspector title

Inspector company

Instructions

- Make copies of this page to use for each inspection.
- Select the appropriate checklist(s) for the type of inspection to be performed.



Annual Inspection: A+B+C

- Place a check in the appropriate box after each inspection procedure is completed.
- If any inspection receives an "N", remove the machine from use, repair and re-inspect it. After repair, place a check in the "R" box.

Legend

Y = yes, acceptable

N = no, unacceptable

R = repaired

Comments

	Checklist A	Y	N	R
A-1	Operator's manual			
A-2	Decals and placards			
A-3	Damage, loose or missing parts			
A-4	Check winch			
A-5	Columns			
A-6	Inspect cable and pulleys			
A-7	Check mast for proper sequencing			
A-8	Inspect casters and wheels			

	Checklist B	Y	N	R
B-1	Column hold down			
B-2	Inspect welds			
B-3	Clean columns			
B-4	Inspect and lubricate winch			
B-5	Rotating Barrel Handler			

	Checklist C	Y	N	R
C-1	Lubricate casters and wheels			
C-2	Mast assembly wear			
C-3	Replace winch friction disks			
C-4	Safety brake system			
C-5	Inspect painted surfaces			

Scheduled Maintenance Procedures



Observe and Obey:

- Maintenance procedures shall be completed by a person trained and qualified on the maintenance of this machine.
- Scheduled maintenance procedures shall be completed daily, quarterly (every 3 months) and annually as specified on the maintenance inspection report.

WARNING Failure to properly complete each inspection when required may result in death, serious injury or substantial machine damage.

- Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunction before operating machine.
- Keep records on all inspections for three years.
- Be sure the capacities of sawhorses or other supports are sufficient to withstand machine weight. See Specification section for specific weight.
- Be sure overhead cranes or other lifting devices are of ample capacity to handle machine weight. See Specification section for specific weight.
- Unless otherwise specified, perform each procedure with the machine in the following configuration:
 - machine positioned on a flat level surface
 - carriage fully lowered
 - casters locked
 - load handling attachment installed

About This Section

This section contains detailed procedures for each scheduled maintenance inspection.

Each procedure includes a description, safety warnings and step-by-step instructions.

Symbols Legend

DANGER	Indicates the presence of a hazard that will cause death or serious injury.
WARNING	Indicates the presence of a hazard that may cause death or serious injury.
CAUTION	Indicates the presence of a hazard that will or may cause serious injury or damage to the machine.
NOTICE	Indicates special operation or maintenance information.

● Indicates that a specific result is expected after performing a series of steps.

Table A Procedures

A-1

Inspect the Operator's Manual

Maintaining the operator's manual in good condition is essential to safe machine operation. The operator's manual is included with each machine and should be stored in the box provided on the mast. An illegible or missing manual will not provide safety and operational information necessary for a safe operating condition.

- 1 Check to make sure the operator's manual is present and complete in the storage container on the mast.
- 2 Examine the pages of the manual to be sure that they are legible and in good condition.
- 3 Always return the manual to the storage container after use.

NOTICE

Contact your authorized Genie distributor or Genie Industries if a replacement manual is needed.

A-2

Inspect the Decals and Placards

Maintaining all of the safety and instructional decals and placards in good condition is essential for safe machine operation. Decals alert operators and personnel to the many possible hazards associated with using this machine. They also provide users with operation and maintenance information. An illegible decal will fail to alert personnel of a procedure or hazard and could result in unsafe operating conditions.

- 1 Refer to the decals section in the operator's manual and use the decal list and illustration to determine that all decals and placards are in place.

- 2 Inspect all decals for legibility and damage. Replace any damaged or illegible decal immediately.

NOTICE

Contact your authorized Genie distributor or Genie Industries if replacement decals are needed.

A-3

Inspect for Damage , Loose or Missing Parts

Daily machine condition inspections are essential to safe machine operation and good machine performance. Failure to locate and repair damage, and discover loose or missing parts may result in an unsafe operating condition.

- 1 Inspect the entire machine for damage and improperly installed or missing parts including:
 - cable anchor
 - cable and pulleys
 - mast columns
 - exterior plastic shims for safety brake
 - nuts, bolts and other fasteners
 - load handling attachment
 - winch and related components
 - legs and casters
 - stabilizers, latch plates and casters
 - loading wheels and snap pin
 - dents or damage to machine
 - cracks in welds or structural components
 - corrosion to painted surfaces
 - corrosion or oxidation to all other surfaces

TABLE A PROCEDURES

A-4

Check the Winch Operation

Detection of damage to the winch is essential to safe machine operation. An unsafe working condition exists if the winch is damaged or not operating correctly. A daily check of the winch operation allows the inspector to identify changes in the operating condition of the winch that might indicate damage.

- 1 Visually inspect the all winch components for damage.
- 2 Raise the carriage through a partial cycle and release the winch handles.

Ⓐ Result: The winch should operate smoothly, free of hesitation or binding. The load should not lower when the handles are released.

- 3 Fully lower the carriage.

Ⓐ Result: The winch should operate smoothly, free of hesitation or binding.

A-5

Inspect the Columns for Damage

Detection of damage to columns is essential for safe machine operation. An unsafe working condition exists if the columns are damaged and do not operate smoothly, free of hesitation and binding. A daily check of the columns allows the inspector to identify changes in the operating condition of the mast assembly that might indicate damage.

- 1 Visually inspect the exterior of each column for the following:
 - dents, gouges or abrasions
 - bends or warping
 - excessive wear

- 2 Raise and lower all columns through a complete cycle.

Ⓐ Result: Columns should raise and lower smoothly, free of hesitation and binding.

A-6

Inspect the Cable and Cable Pulleys

Detection of damage to cable or pulleys is essential for safe machine operation. An unsafe working condition exists if these components are damaged and do not operate smoothly. A daily check of this system allows the inspector to identify changes in the operating condition that might indicate damage.

- 1 Visually inspect the cable and components for the following:
 - frayed or broken wire strands
 - kinks in the cable
 - corrosion
 - paint or foreign materials
 - split or cracked swaged end(s)
 - cable is properly secured to the winch
 - cable is properly secured to the mast
- 2 Using proper lifting techniques, lay the machine back against a sawhorse or other suitable support and check to be sure of the following:
 - cable is on the pulleys
 - upper and lower mounting brackets are properly secured
 - no broken or damaged pulleys
 - no unusual or excessive pulley wear

TABLE A PROCEDURES**A-7**
Check the Mast for Proper Sequencing

Detection of damage to the mast is essential for safe machine operation. An unsafe working condition exists if the mast is damaged and does not sequence properly, free of hesitation and binding. A daily check of the sequencing allows the inspector to identify changes in the operating condition of the mast assembly that might indicate damage.

- 1 Raise all columns to full height.
- ◎ Result: The carriage should rise to the top of the front column section, followed in consecutive order by each column.
- 2 Lower the columns to the stowed position.
- ◎ Result: The columns should lower in reverse order, followed by the carriage.

A-8
Inspect the Casters and Wheels

Extremely dirty conditions may require that the casters and wheels be inspected and lubricated more often.

- 1 Visually inspect each caster and wheel for cuts, cracks or unusual wear.
- 2 Move the machine on a flat smooth surface and check that the casters and wheels roll smoothly, free of hesitation and binding.
- 3 Lock the base swivel casters.
- ◎ Result: The wheels should not turn.
- 4 Be sure the rotation lock functions properly in each position.

Table B Procedures

B-1

Inspect the Column Hold Down System

Detection of damage to the column hold down system is essential for safe machine operation. An unsafe working condition exists if the system is damaged and does not operate properly.

- 1 Using proper lifting techniques, lay the machine back against a sawhorse or other suitable support.
- 2 Visually inspect the hold down latches for damage.
- 3 Move each hold down latch back and forth to ensure that the latch moves freely.

B-2

Inspect All Welds

Weld inspections are essential to safe machine operation and good machine performance. Failure to locate and repair damage may result in an unsafe operating condition.

- 1 Visually inspect the welds in the following locations:
 - winch mounting plate
 - loading wheels/steer handle
 - base
 - legs and stabilizers
 - load handling attachment(s)

B-3

Clean the Columns

Clean columns are essential to good machine performance and safe operation. Extremely dirty conditions may require that the columns be cleaned more often.

- 1 Raise all columns to the maximum height.
- 2 Visually inspect the inner and outer channels of the columns for debris or foreign material. If necessary, use a mild cleaning solvent to clean the columns.

WARNING

This procedure will require the use of additional access equipment. Do not place ladders or scaffold on or against any part of the machine. Performing this procedure without the proper skills and tools may result in death or serious injury. Dealer service is strongly recommended.

TABLE B PROCEDURES

B-4**Inspect and Lubricate the Winch**

Maintaining the winch is essential to good machine performance and safe operation. An unsafe working condition exists if the winch has excessive wear and/or does not operate smoothly, free of hesitation and binding.

- 1 Carefully lubricate the following areas with automotive grease:
 - the cable drum gear
 - the teeth on the pinion gear that meshes with the cable drum gear
 - the threads on the pinion shaft, under the pinion gear
 - the teeth on the slow and the fast speed gears where they mesh together

NOTICE

Do not apply grease to brake friction disks or ratchet gear.

- 2 Carefully lubricate with 30W oil both pivot points on each ratchet pawl.
- 3 Inspect the friction disks for excessive wear. Replace if pad is less than $1/16$ inch (1.5 mm) thick.
- 4 Inspect pinion shaft bushings for excessive wear. Replace if wall thickness of bushing is less than $1/8$ inch (3.1 mm).
- 5 Lubricate the frame drum spacer. Tighten the drum bolt to 20 ft-lbs (27 Nm). Do not overtighten.

B-5**Inspect and Lubricate the Rotating Barrel Handler**

Maintaining the barrel handler is essential to good performance and safe operation. An unsafe working condition exists if the barrel handler has excessive wear and/or does not operate smoothly, free of hesitation and binding.

- 1 Visually inspect the following components for damage:
 - all bushings
 - chain and clamp
 - gears
 - snap rings
 - fasteners
 - crank handle
- 2 Raise the barrel handler to a comfortable working height (chest height). Do not put a load on it.
- 3 Pump grease onto the drive gear. Locate the gear from the bottom side of the barrel handler.
- 4 Using the crank handle, rotate the barrel cradle $1/4$ turn and apply more grease.
- 5 Rotate the barrel cradle 2 full turns or until the grease is completely worked into the gears.

Oil Type	Multipurpose grease
----------	---------------------

Table C Procedures

C-1

Lubricate the Casters and Wheels

Extremely dirty conditions may require that the casters and wheels be inspected and lubricated more often.

- 1 Visually inspect each caster and wheel for cuts, cracks or unusual wear.
- 2 Move the machine on a flat smooth surface and check that the casters and wheels roll smoothly, free of hesitation and binding.
- 3 Pump grease into the caster or wheel until it can be seen coming out of the bearing gap.

Grease Type

Lithium-based

C-2

Inspect the Mast Assembly for Wear

Detection of excessive or unusual wear in the mast assembly is essential for safe machine operation.

An unsafe working condition exists if the mast assembly has excessive wear and/or does not operate smoothly, free of hesitation and binding.

- 1 Attach an overhead crane or similar lifting device to the lifting bracket on the mast.
- 2 Lift the machine slightly and then guide it over onto the ground, so that the machine is laying on the loading wheels.



WARNING Crushing hazard. The machine will fall unless it is properly supported with the overhead crane.

- 3 Visually inspect the top of each column for clearance between the roller wheel and the adjacent column surface.

- Ⓐ Result: There should be a maximum gap of 0.062 inches (1.57 mm) between the roller wheel and the column.

NOTICE

If mast inspection results in a measurement that is not within specification, refer to Repair procedure 2-1, *How to Disassemble the Mast*.

- 4 Visually inspect the bottom of each column for clearance between the roller wheel and the

TABLE C PROCEDURES

adjacent column surface.

◎ Result: There should be a maximum gap of 0.062 inches (1.57 mm) between the roller wheel and the column.

NOTICE

If mast inspection results in a measurement that is not within specification, refer to Repair procedure 2-1, *How to Disassemble the Mast*.

C-3**Replace the Winch Friction Disks**

Maintaining the winch is essential to good machine performance and safe operation. An unsafe working condition exists if the winch has excessive wear and/or does not operate smoothly, free of hesitation and binding.

1 Replace the winch friction disks. See Repair procedure 3-1 or 3-2, *How to Disassemble the Winch*.

C-4**Inspect the Safety Brake System**

Detection of damage or a defect to the safety brake system is essential for safe machine operation. An unsafe working condition exists if the system is damaged or defective and does not allow the mast to sequence properly, free of hesitation and binding.

WARNING

This procedure requires specific repair skills and a suitable workshop. Attempting this procedure without these skills may result in death or serious injury or significant component damage. Dealer service is strongly recommended.

CAUTION

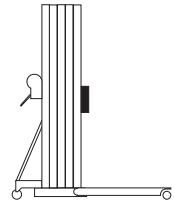
Be sure to wear protective gloves to perform this procedure.

1 Install a load handling attachment into the carriage (use forks or the boom if possible). Do not place any weight on the load handling attachment.

2 Raise the carriage until it is half way up the front column.

3 Physically hold the bottom side of the carriage and lift it approximately 5 inches (12.7 cm), then drop it.

◎ Result: The carriage should stop within 3 inches (7.6 cm) and the safety brake should lock.

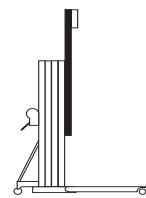


CAUTION Crushing hazard. Do not stand directly under columns.

4 Raise the carriage 6 inches (15.2 cm) to unlock the safety brake.

5 Continue raising the carriage until the front column is half way up the adjacent column.

6 Physically hold the bottom side of the front column, and lift it approximately 5 inches (12.7 cm), then drop it.



CAUTION Crushing hazard. Do not stand directly under columns.

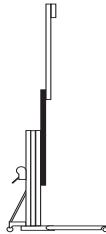
7 Raise the front column 6 inches (15.2 cm) to unlock the safety brake.

8 Continue raising the carriage until the front column is fully raised and the next column is half way up the adjacent column.

9 Physically hold the bottom side of the next column, and lift it approximately 5 inches

TABLE C PROCEDURES

(12.7 cm), then drop it.

**CAUTION**

Crushing hazard. Do not stand directly under columns.

10 Repeat steps 7 through 9 to test all remaining columns.

NOTICE

When unlocking the safety brake it may be necessary to hold down the column behind the brake to be unlocked.

NOTICE

The number one column (column attached to base) does not have a safety brake and will not need to be tested.

Inspect the Painted Surfaces

Inspecting the painted surfaces of your machine is essential to safe operation. An unsafe working condition exists if there is damage to painted surfaces that is not corrected.

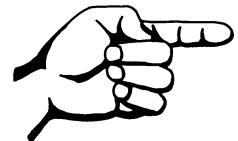
1 Visually inspect all painted surfaces for the following conditions:

- blistering
- rust
- pealing
- fading
- corrosion

NOTICE

Replace any component if it is damaged.

C-5



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Troubleshooting Flow Charts



Observe and Obey:

- Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunction before operating the machine.
- Be sure the capacities of sawhorses or other supports are sufficient to withstand machine weight. See Specification section for specific weight.
- Be sure overhead cranes or other lifting devices are of ample capacity to handle machine weight. See Specification section for specific weight.

Before Troubleshooting:

- Read, understand and obey the safety rules and operating instructions printed in the *Genie Superlift Operator's Manual*.
- Be sure that all necessary tools and test equipment are available and ready for use.
- Read each appropriate flow chart thoroughly. Attempting shortcuts may produce hazardous conditions.
- Be aware of the following hazards and follow generally accepted safe workshop practices.

DANGER

Crushing hazard. When testing or replacing primary component, always support the structure and secure it from movement.

NOTICE

Perform all troubleshooting on a firm level surface.

NOTICE

Two persons will be required to safely perform some troubleshooting procedures.

About This Section

When a malfunction is discovered, the flow charts in this section will help a service professional pinpoint the cause of the problem. To use this section, basic hand tools are required.

General Repair Process

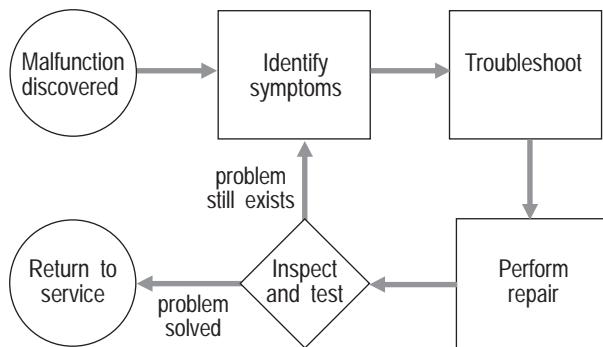


Chart 1

Mast Will Not Sequence Properly

Be sure safety brake is not locked by raising and lowering all columns

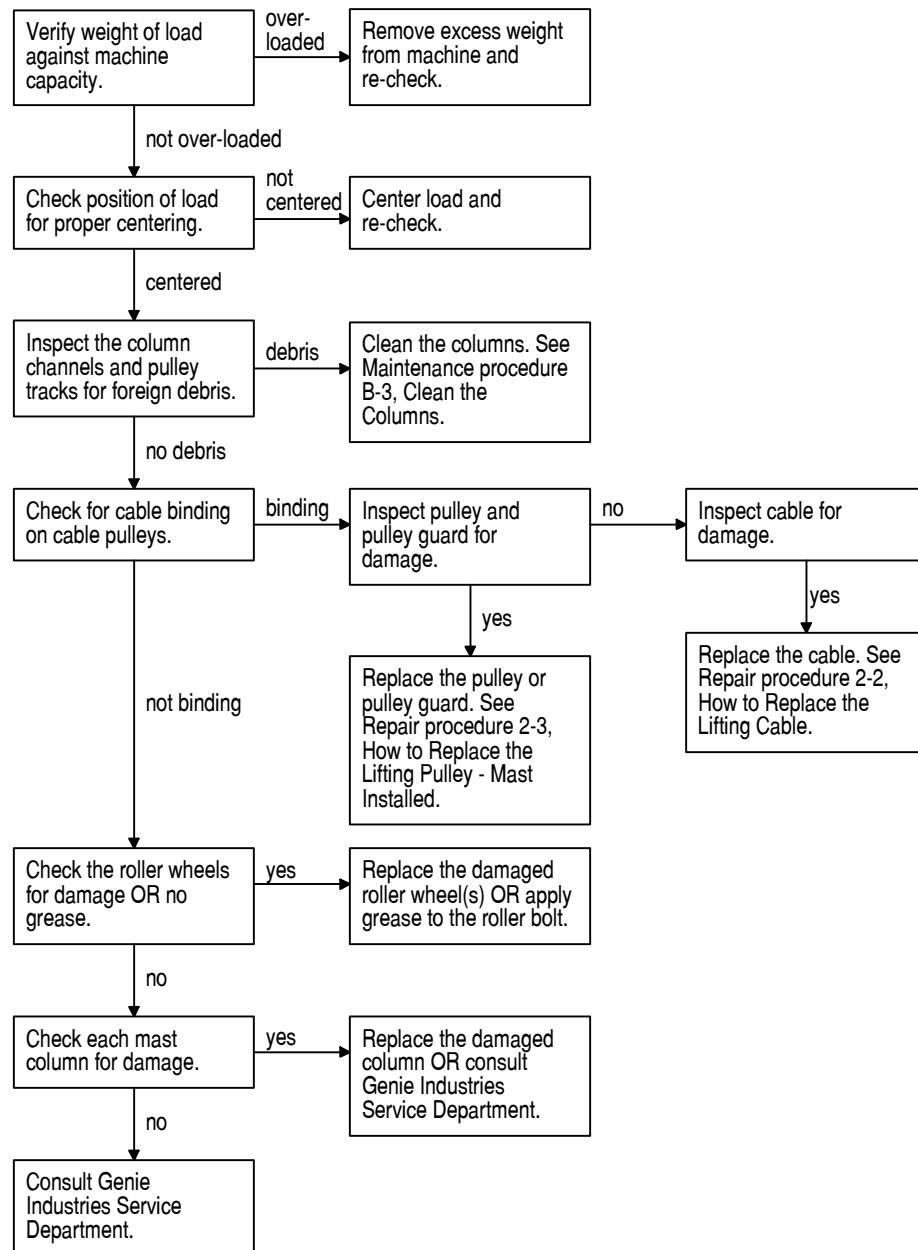


Chart 2

Carriage Will Not Raise, But Winch Will Operate

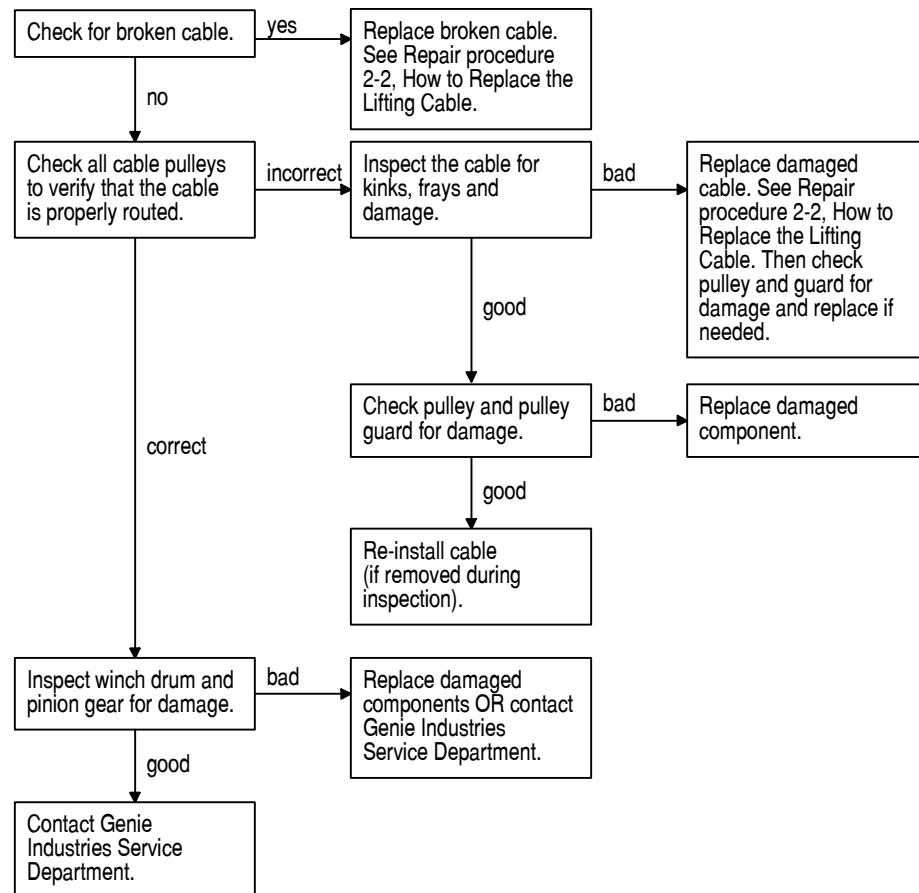
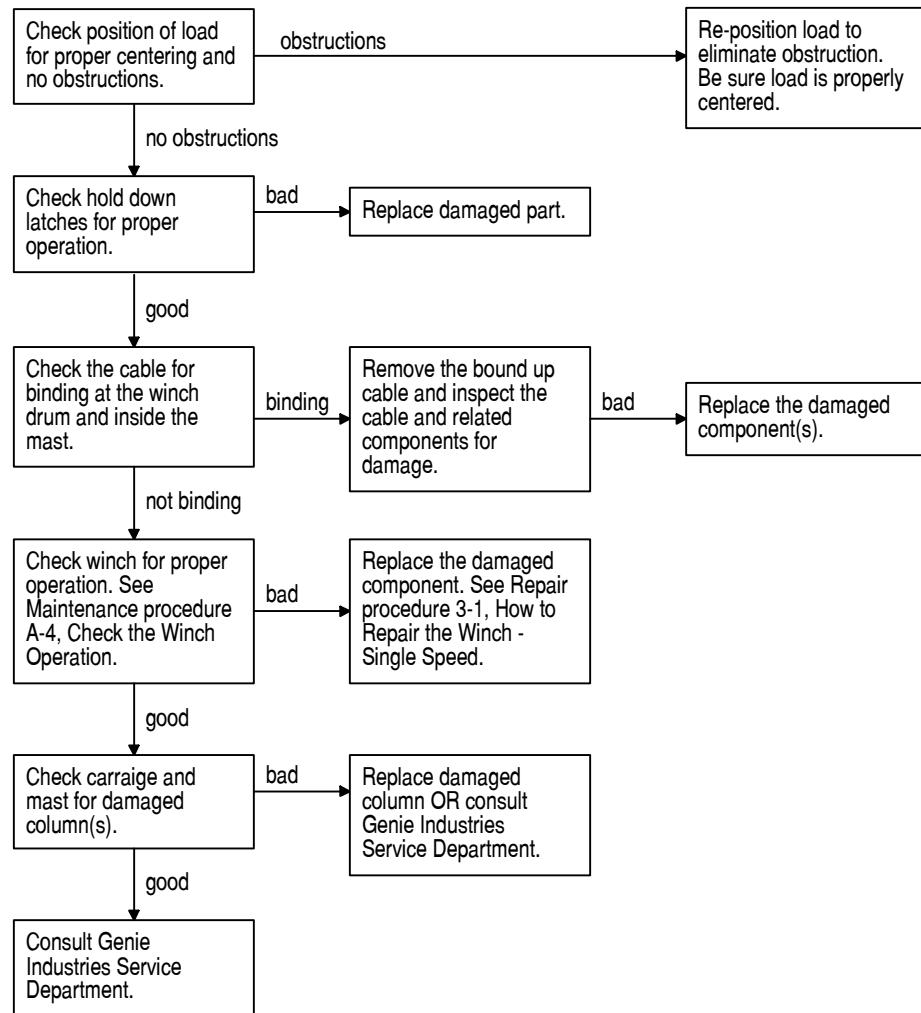


Chart 3

Winch Will Not Operate



Repair Procedures



Observe and Obey:

- Repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunction before operating the machine.

Before Repairs Start:

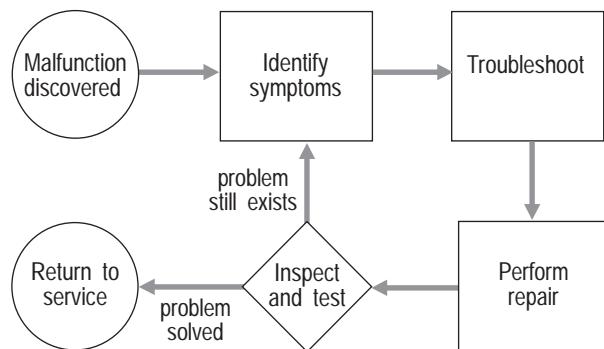
- Read, understand and obey the safety rules and operating instructions in the *Genie Superlift Operator's Manual*.
- Be sure that all necessary tools and parts are available and ready for use.
- Be sure the capacities of sawhorses or other supports are sufficient to withstand machine weight. See Specification section for specific weight.
- Be sure overhead cranes or other lifting devices are of ample capacity to handle machine weight. See Specification section for specific weight.
- Read each procedure completely and adhere to the instructions. Attempting shortcuts may produce hazardous conditions.
- Unless otherwise specified, perform each procedure with the machine in the following configuration:
 - machine positioned on a flat level surface
 - carriage fully lowered
 - casters locked

About This Section

Most of the procedures in this section should only be performed by a trained service professional in a suitably equipped workshop. Select the appropriate repair procedure after troubleshooting the problem.

Perform disassembly procedures to the point where repairs can be completed. Then to re-assemble, perform the disassembly steps in reverse order.

General Repair Process



Symbols Legend

DANGER	Indicates the presence of a hazard that will cause death or serious injury.
WARNING	Indicates the presence of a hazard that may cause death or serious injury.
CAUTION	Indicates the presence of a hazard that will or may cause serious injury or damage to the machine.
NOTICE	Indicates special operation or maintenance information.
●	Indicates that a specific result is expected after performing a series of steps.

Base Assembly

1-1

How to Remove the Base - Standard Base

- 1 Fully lower the carriage.
- 2 Remove the load handling attachment from the machine.

Machines with stabilizers:

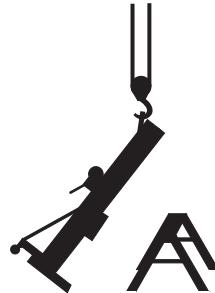
- 3 Remove the mounting fasteners from the stabilizer mounting bracket on the back of the mast.
- 4 Remove the mounting fastener from each of the stabilizers at the base. Remove the stabilizers from the machine.



All Models:

- 5 Using proper lifting techniques, tilt the machine back and rest the loading wheels against a sawhorse or other suitable support.
- 6 Remove the mounting fastener and retaining pin from each leg. Then remove the legs from the machine.
- 7 Using proper lifting techniques, tilt the machine to the upright position.
- 8 Attach an overhead crane to the lifting bracket on the number 1 mast.
- 9 Place a sawhorse on the carriage side of the mast.

- 10 Lift the machine slightly and then while lowering it, guide the machine over onto the sawhorse.



CAUTION Crushing hazard. The machine will fall unless it is properly supported with the overhead crane.

- 11 Secure the top of the mast to the sawhorse.
- 12 Attach an overhead crane to the base and lift the machine enough to slide a second sawhorse under the mast, next to the base.

CAUTION Crushing hazard. The machine will fall unless it is properly supported with the overhead crane.

- 13 Remove the mounting fasteners from the mast brace to the base. Repeat for other side.
- 14 Remove the base mounting fasteners. Then remove the base from the machine.

BASE ASSEMBLY

1-2

How to Remove the Base

- Straddle Base

- 1 Fully lower the carriage.
- 2 Remove the load handling attachment from the machine.
- 3 Using proper lifting techniques, tilt the machine back and rest the loading wheels against a sawhorse or other suitable support.
- 4 Remove the mounting fastener and retaining pin from each leg. Then remove the legs from the machine.
- 5 Remove the stopper bolt from the adjustable arm, located inside the base tube. Remove the adjustable arm from the machine. Repeat for the other side.
- 6 Using proper lifting techniques, tilt the machine to the upright position.
- 7 Attach an overhead crane to the lifting bracket on the number 1 mast.
- 8 Place a sawhorse on the carriage side of the mast.



- 9 Lift the machine slightly and then while lowering it, guide the machine over onto the sawhorse.



CAUTION Crushing hazard. The machine will fall unless it is properly supported with the overhead crane.

- 10 Secure the top of the mast to the sawhorse.

- 11 Attach an overhead crane to the base and lift the machine enough to slide a second sawhorse under the mast, next to the base.

CAUTION Crushing hazard. The machine will fall unless it is properly supported with the overhead crane.

- 12 Remove the mounting fasteners from the mast brace to the base. Repeat for the other side.

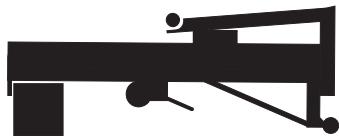
- 13 Remove the base mounting fasteners. Then remove the base from the machine.

Mast Assembly

2-1

How to Disassemble the Mast Assembly

- 1 Remove the cable retaining fasteners from the winch drum. Then remove all of the cable from the drum.
- 2 Tip the machine backwards and rest the top of the number one mast on an appropriate support. The mast assembly should be level with the carriage up.



CAUTION

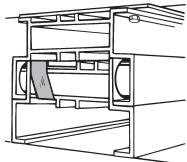
Bodily injury hazard. Use proper lifting techniques.

- 3 Remove the mounting fastener from the cable anchor on the last column (carriage side).
- 4 Remove the cable from the mast by pulling on the cable anchor end of the cable.

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

- 5 Secure the hold-down latch to its respective column with a piece of tape, so that it does not fall off during disassembly.
- 6 Slide the carriage forward about 1 foot (30 cm) to expose the column stop mounting fastener attached to the bottom end of the top column, below the carriage. Remove the fastener and the stop.
- 7 Use a hex key wrench through the access holes in the carriage to release the safety brake. Slide the carriage away from the base 1 inch (2.5 cm) while reaching through both slots. Position the hex key above the safety brake rollers and pull back on the wrench.



- 8 Remove the carriage by sliding it out the bottom of the mast towards the base while holding the safety brake rollers in position with the hex key wrench.
- 9 Repeat steps 6 through 8 for each remaining column.

How to Release the Safety Brake When Servicing the Mast

The safety brake system will lock when the machine is tilted horizontally. When the brake is locked, the columns can extend but not retract. If the safety brake system locks while you are servicing the mast, use one of the following methods described below to release the brake.

- A The first method allows you to release each column successively starting at the carriage and removing columns one by one. This is described above in How to Disassemble the Mast Assembly, steps 7 and 8.
- B The second method allows you to release any column in the assembly regardless of position but requires a custom made tool. The tool is a piece of 1/8 to 3/16 inch diameter stiff wire bent in an L shape with one end 1 inch long and the other end 16 inches long. The installation of a handle on the 16" end will make it easier to use.



Using the special tool, reach from the bottom of the column and into the safety brake access slot in the inner side wall of the column. Slide the carriage away from the base about 1 inch (2.5 cm) while reaching through the far upper end of the slot. Position the short end of the tool above the safety brake rollers and pull back on the tool. Slide the released column out the bottom of the mast assembly.

How to Assemble the Mast

MAST ASSEMBLY

- 1 Inspect all mast parts for wear and damage, replace as necessary.
- 2 Clean all of the columns and rollers.
- 3 Clean all of the safety brake assemblies.
- 4 Position the number one column so that it is open side up and level. If it is not attached to the base, secure the column to your sawhorses or work table before proceeding.
- 5 Install all column assembly components (if removed during disassembly). Apply a small amount of grease between the roller bolt head and the inside of the roller wheel.
- 6 Slide the number two column into the number one from the bottom. Stop inserting the column when the top of the safety brake assembly is even with the bottom of the number one column.
- 7 Repeat with all remaining columns. All columns should be sticking out of the next lower column. Do not install the carriage.

NOTICE

Cable is installed after all columns are together as an assembly.

- 8 Attach the swagged end of the cable to the cable anchor on the top of the front column.
- 9 With the other end of the cable in hand, feed it through the box section (web) of the carriage into the pulley and push it through the pulley until it comes out the back side of the carriage.

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE

Refer to figure 7-G, in the parts section to identify the cable routing.

- 10 Insert the carriage into the bottom end of the top column. Hold the carriage from moving and pull the cable up to the top of the column, leaving enough slack so that you can feed the cable through the next pulley.

- 11 Push the cable through the exposed portion of

the pulley at the top of the column until the cable reaches the pulley at the bottom of the column.

- 12 Using needle nose pliers, insert the cable end into the cable pulley. Push the cable through the pulley until the end comes out.
- 13 Push the cable between the two mast sections until it comes out the top of the column.
- 14 Repeat steps 11 through 13, until all the columns are cabled.
- 15 Slide all the columns forward, until you can install the column stops. Do not slide the columns forward, further than necessary.
- 16 Remove the tape from the hold down latches, making sure that they move freely.
- 17 Install all the components removed during disassembly.
- 18 Attach the cable to the winch and be sure cable is routed correctly.
- 19 Raise all the columns to full height to release the safety brakes and verify proper operation.

2-2

How to Replace the Lifting Cable

NOTICE

All Genie replacement cables come with one preswaged end that terminates to the last column and one taped end that terminates to the winch.

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

- 1 Fully lower the carriage.
- 2 Wrap a piece of strapping tape around the cable just below the swagged end of the cable.
- 3 Remove the cable from the winch drum.
- 4 Cut the cable where you placed the tape.

MAST ASSEMBLY

NOTICE

Cable must be cut using a cutting tool which will not leave frays on the end of the cable.

- 5 Using the cable re-threading tool that came with your cable, insert even amounts of cable into each end of the tool.
- 6 Pull the old cable out from the winch and pull in new cable at the same time.

NOTICE

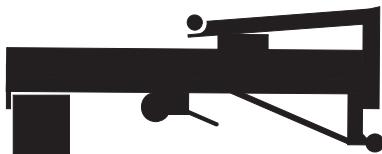
If cable gets caught as you are pulling it through the columns and pulleys, take care not to pull too hard as you can break the connection between the two cables. Try pulling the cable back and forth until the cable pulls free.

2-3

How to Replace a Lifting Pulley

- Mast Installed

- 1 Fully lower the carriage.
- 2 Unwind approximately 1 to 2 feet (0.30 to 0.60 meters) of cable from the winch drum.
- 3 Using proper lifting techniques, lay the machine on the floor on its back on the loading wheels.



- 4 Using a piece of strapping tape, secure the hold down latch to its respective column so that it does not fall off during disassembly.

NOTICE

If replacing an upper pulley, secure the hold-down latch to the column above the one you wish to replace the pulley on. If replacing the lower pulley, secure the hold-down latch to the same column that the pulley is on.

- 5 If replacing an upper pulley, slide the column that is above the pulley to be replaced forward. If replacing a lower pulley, slide the column with the pulley to be replaced forward. Push the column forward about 6 inches (15.2 cm) to expose the lower column stop.

- 6 Remove the column stop.

- 7 Slide the column backwards until the pulley to be replaced is exposed.

- 8 Remove the two mounting fasteners from the pulley mounting block. Then remove the pulley assembly.

- 9 Remove the bolt that attaches the pulley to the mounting block.

NOTICE

Note where the shims are located before disassembling.

- 10 Remove the old pulley. Install the cable onto the new pulley, then install the pulley onto the column.

CAUTION

When installing the cable onto the pulley, make sure the cable does not get twisted or sequencing and other mast related problems will occur.

NOTICE

Make sure the cable guard is located over the retaining pin on the pulley mounting block. Make sure the pulley spins freely after reassembling the pulley assembly.

- 11 Attach the pulley assembly to the column.

- 12 Assemble the columns in reverse order of disassembly.

- 13 Repeat the procedure for other pulleys to be replaced.

NOTICE

Remember to remove the tape from the hold-down latches before putting machine back in service.

Winches

3-1

How to Disassemble the Winch - Single Speed

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

- 1 Fully lower the carriage.
- 2 Remove the cable retaining fastener from the winch drum. Then remove the cable from the drum.
- 3 Remove the handles from the pinion shaft.
- 4 Remove the drum bolt and the drum bolt spacer. Then remove the drum and drum gear cover and the housing spacer from the winch.
- 5 Remove the two lock nuts from the pinion shaft by holding the opposite end of the shaft by the flattened portion of the threads.

CAUTION

Be careful not to damage the threads while holding the pinion shaft.

- 6 Remove the retaining ring from the pinion shaft.
- 7 Slide the pinion shaft to the left and remove the pinion spacer, pinion plate, ratchet gear and friction disks. Remove the pinion gear by turning it counterclockwise, then slide it off the right side of the shaft.
- 8 Remove the pinion shaft from the winch housing.
- 9 Remove both pinion bushings. Use a soft metal drift equal to the outside diameter of the bushing and tap with rubber mallet.

CAUTION

Place a block in between the walls of the winch housing to prevent the housing from bending while removing the bushings.

- 10 Remove the winch housing from the machine.

How to Assemble the Winch - Single Speed

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE

Refer to Section Six, Figure 4-A, Single Speed Winch for exploded view of the winch.

- 1 Place one side of the winch housing over a vise. Open the vise until it is wider than the outside diameter of the bushing.
- 2 Insert a soft metal drift through the opposite bushing hole. Tap the drift with a rubber mallet to push the bushing into place. Repeat steps 1 and 2 to insert the other bushing.

NOTICE

Use a piece of flatbar in between the drift and the bushing to prevent any damage to the bushing.

- 5 Add two drops of 30W oil to both pivot points on each ratchet pawl.

CAUTION

Do not allow grease or oil onto the brake friction disks or the ratchet gear.

- 6 Install the winch housing onto the mast. Be sure the winch drum is towards the top.
- 7 Insert the longer threaded end of the pinion shaft through the left bushing approximately half way.
- 8 Apply a small amount of automotive grease to the large threaded section of the pinion shaft, under the gear nut. Install the pinion gear onto the pinion shaft with the gears towards the left wall of the winch housing. Screw onto the large threads hand tight.

WINCHES

9 Install a friction disk, ratchet gear, friction disk, pinion plate and pinion spacer in respective order onto the pinion shaft.

NOTICE

The teeth on the ratchet gear must curve away from the right side wall of the winch housing.

CAUTION Do not allow grease or oil onto the friction disks or the ratchet gear.

10 Push the pinion shaft to the right, through the right pinion bushing and install the pinion shaft retaining ring.

NOTICE

Use your fingers to push the ratchet pawls outwards while pushing pinion shaft through the right bushing. Be sure the ratchet pawls are in firm contact with the ratchet gear and all parts move freely.

11 Install the two jam nuts to the right side of the pinion shaft one at a time and tighten.

12 Install a handle to both sides of the pinion shaft in opposite directions and secure with a lock nut on each end of the pinion shaft.

13 Lubricate the outside of the frame spacer that goes through the cable drum with automotive grease and then insert it into the drum.

14 Install the cable drum so that the drum gears mesh with the ratchet gears.

15 Install the drum bolt keeper onto the drum bolt and then insert the drum bolt through the winch housing and drum with the head of the drum bolt on the drum gear side of the winch.

16 Place the drum gear cover into position with the drum bolt slot under the drum bolt keeper.

17 Install the drum bolt jam nut hand tight.

18 Install the housing spacer with the head of the housing spacer bolt on the right side of the winch and through the slotted portion of the drum gear cover. Place the nut on the end of the bolt and tighten.

19 Tighten and torque the drum bolt nut to 20 to 25 ft. lbs.

CAUTION

Overtightening the drum bolt jam nut may cause damage to the frame spacer and prevent the drum from spinning freely.

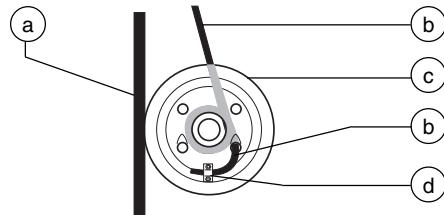
20 Lubricate with automotive grease the teeth of the drum gear and the pinion nut that meshes with the drum gear.

CAUTION

Do not allow grease or oil onto the friction disks or the ratchet gear.

21 Rotate the drum so that the two square cable keeper holes are at the top. Install the cable keeper clip to the outside of the drum with the two carriage bolts coming through from the inside. Install the lock washers and nut. Do not tighten down the nuts at this point.

22 Route the end of the cable around the winch drum and out through the remaining hole on the left side wall of the drum.



a number one column
 b cable
 c winch drum
 d cable keeper clip

23 Insert the end of the cable under the cable keeper clip approximately 1/2 inch and tighten the cable keeper clip.

24 While holding the cable tight on the drum, rotate the drum with a handle and spool the cable onto the drum neatly.

CAUTION

Component damage hazard. Be sure the cable winds onto the winch drum evenly.

WINCHES

3-2

How to Disassemble the Winch - Two Speed

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

- 1 Fully lower the carriage.
- 2 Remove the cable retaining fastener from the winch drum. Then remove the cable from the drum.
- 3 Remove the handles from the pinion shaft.
- 4 Remove the drum bolt and the drum bolt spacer. Then remove the drum and drum gear cover and the housing spacer.
- 5 Remove the input shaft cover.
- 6 Remove the mounting fasteners from the spring and ball housing.
- 7 Remove both the springs and the balls from the housing.
- 8 Shift the input shaft into the neutral position.
- 9 Rotate the input shaft until the drive pin is visible inside the input shaft gear.
- 10 Remove the drive pin with a soft metal drift.
- 11 Slide the input shaft out of the winch housing.

NOTICE

Note the location and position of the components on the input shaft.

- 12 Remove the retaining ring from the pinion shaft.
- 13 Gently pry the pinion shaft gears to the left, over the woodruff keys.
- 14 Remove the lock nut from the end of the pinion shaft (located on the outside of the winch housing).
- 15 Slide the pinion shaft to the right and remove the pinion spacer, pinion plate, ratchet gear, and friction disks. Remove the pinion gear by turning it counterclockwise, then slide it off the left side of the shaft.

- 16 Remove both pinion bushings. Use a soft metal drift equal to the outside diameter of the bushing and tap with rubber mallet.

CAUTION

Place a block in between the walls of the winch housing to prevent the housing from bending while removing the bushings.

How to Assemble the Winch - Two Speed

CAUTION

Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

NOTICE

Refer to Section Six, Figure 7-N, Two Speed Winch for exploded view of the winch.

- 1 Place one side of the winch housing over a vise. Open the vise until it is wider than the outside diameter of the bushing.
- 2 Insert a soft metal drift through the opposite bushing hole. Line up the tab on the bushing to the hole in the winch housing. Tap the drift with a rubber mallet to push the bushing into place. Repeat steps 1 and 2 to insert the other bushing.

NOTICE

Use a piece of flatbar in between the drift and the bushing to prevent any damage to the bushing.

- 3 Add two drops of 30W oil to both pivot points on each ratchet pawl.

CAUTION

Do not allow grease or oil onto the friction disks or the ratchet gear.

- 4 Install the winch housing onto the mast. Be sure the winch drum is towards the top.
- 5 Insert the longer threaded end of the pinion shaft through the right bushing approximately half way.

WINCHES

- 6 Apply a small amount of automotive grease to the large threaded section of the pinion shaft, under the gear nut. Slide the pinion shaft gears onto the pinion shaft. Install the pinion gear onto the pinion shaft with the gears towards the right wall of the winch housing. Screw onto large threads hand tight.
- 7 Install a friction disk, ratchet gear, friction disk, pinion plate and pinion spacer in respective order onto the pinion shaft.

NOTICE

The teeth on the ratchet gear must curve towards the left side wall of the winch housing.

CAUTION

Do not allow grease or oil onto the brake disk, the ratchet gear or the teflon spacer.

- 8 Slide the pinion shaft gears over the woodruff keys. Then install the pinion shaft retaining ring onto the pinion shaft.

NOTICE

Use your fingers to push the ratchet pawls outwards while pushing pinion shaft through the left bushing. Be sure the ratchet pawls are in firm contact with the ratchet gear and all parts move freely.

- 9 Install the lock nut on the left side of the pinion shaft.
- 10 Install the input shaft through the left side of the winch housing approximately half way.
- 11 Slide the left side bushing, spring and ball housing, spacer, input shaft gears and right side bushing onto the input shaft.
- 12 Rotate the input shaft until the drive pin hole is visible. Install the drive pin with a soft metal drift.

- 13 Install the ball and spring into the spring and ball housing, then install the mounting fasteners.
- 14 Lubricate with automotive grease the outside of the frame spacer that goes through the cable drum and then insert it into the drum.
- 15 Install the cable drum so that the drum gears mesh with the ratchet gears.
- 16 Install the drum bolt keeper onto the drum bolt and then insert the drum bolt through the winch housing, drum cover and drum with the head of the drum bolt on the drum gear side of the winch.
- 17 Install the drum bolt jam nut and torque to 20 to 25 ft. lbs.

CAUTION

Overtightening the drum bolt jam nut may cause damage to the frame spacer and prevent the drum from spinning freely.

- 18 Lubricate with automotive grease the teeth of the drum gear and the pinion nut where they mesh.

CAUTION

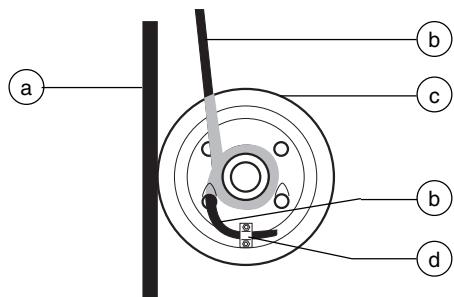
Do not allow grease or oil onto the friction disks or the ratchet gear.

- 19 Install the input shaft cover.

WINCHES

20 Rotate the drum so that the two square cable keeper holes are at the top. Install the cable keeper clip to the outside of the drum with the two carriage bolts coming through from the inside. Install the lock washers and nut. Do not tighten down the nuts at this point.

21 Route the end of the cable over, then under the winch drum and out through the remaining hole on the left side wall of the drum.



- a number one column
- b cable
- c winch drum
- d cable keeper clip

WARNING Crushing hazard. Failure to properly route the cable may result in a winch brake failure.

22 Insert the end of the cable under the cable keeper clip approximately 1/2 inch and tighten the cable keeper clip.

23 While holding the cable tight on the drum, rotate the drum with a handle and spool the cable onto the drum neatly.

CAUTION Component damage hazard. Be sure the cable winds onto the winch drum evenly.



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How To Order Parts

How To Order Service Parts

Please be prepared with the following information when ordering replacement parts for your Genie product:

- Machine model number
- Machine serial number
- Genie part number
- Part description and quantity
- Purchase order number
- "Ship to" address
- Desired method of shipment
- Name and telephone number of the authorized Genie Distributor in your area

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, call Genie.

Genie North America

Telephone (206) 881-1800
Toll Free 800 536-1800 in U.S.A.
Toll Free 800 426-8089 in Canada
Fax (206) 883-3475

Genie Europe

Telephone (44) 0636-813943
Fax (44) 0636-815270

Machine Information

Model

Serial Number

Date of Purchase

Authorized Genie Distributor

Phone Number

Manuals

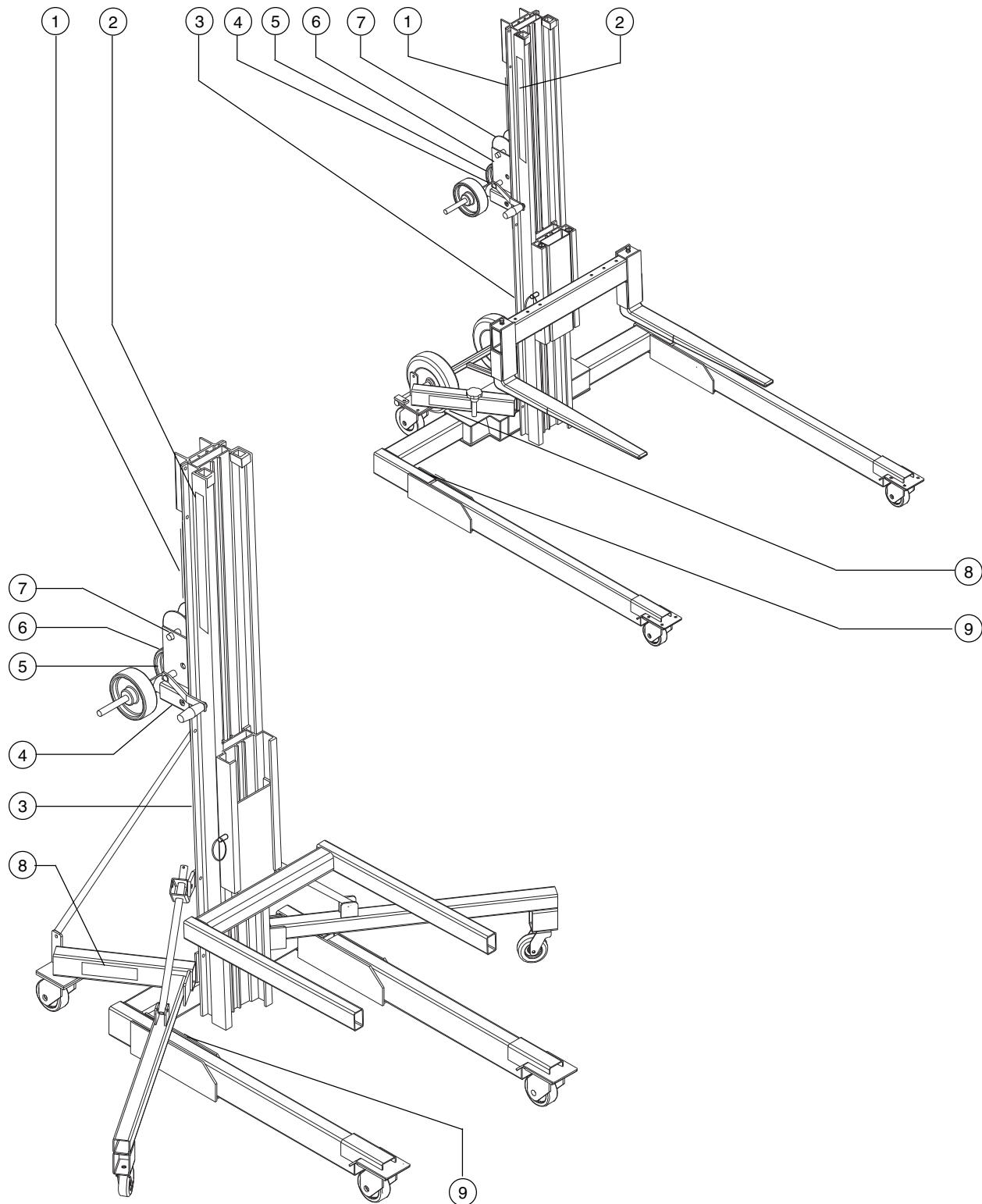
Genie Industries offers the following support document for this machine:

Title	Part No.
Operator's Manual	33499
(from serial number 5594-101 to 5501-15094 and from SLA02-15095 to SLA05-28239)	
EMI Safety Manual	27581

Figure 7-A

Decals and Paint - View 1

REV A



REV A

FIGURE 7-A

Index	Part No.	Description	Quantity This Figure
—	1483	Paint - Genie Blue, 1 Gallon (3.78 liters)	—
—	1484	Paint - Genie Blue, 12 Ounces (340.5 grams) Aerosol	—
1	32686	Warning - Machine Safety and Set-up	1
2	32688	Genie Superlift	2
3	31072	Operator's Manual Storage Container	1
4	32939	Warning - Crushing Hazard, Brake Lock	1
5	32770	Notice - Two-speed Winch Shift Instructions	1
6	32938	Use This Winch	1
7	32885	Warning - Silent Ratchet System	1
8	32689	Decal, Model Height, SL-5	2
—	32690	Decal, Model Height, SL-10	2
—	32691	Decal, Model Height, SL-15	2
—	32692	Decal, Model Height, SL-20	2
—	32693	Decal, Model Height, SL-25	2
9	6724	Plate - Serial Number (before serial number 5594-03264)	1
	33523	Plate - Serial Number (from serial number 5594-03264 to 5501-15094 and from SLA02-15095 to SLA03-20337)	—
	80939	Plate - Serial Number (from SLA03-20338)	—

Figure 7-A

Decals and Paint - View 2

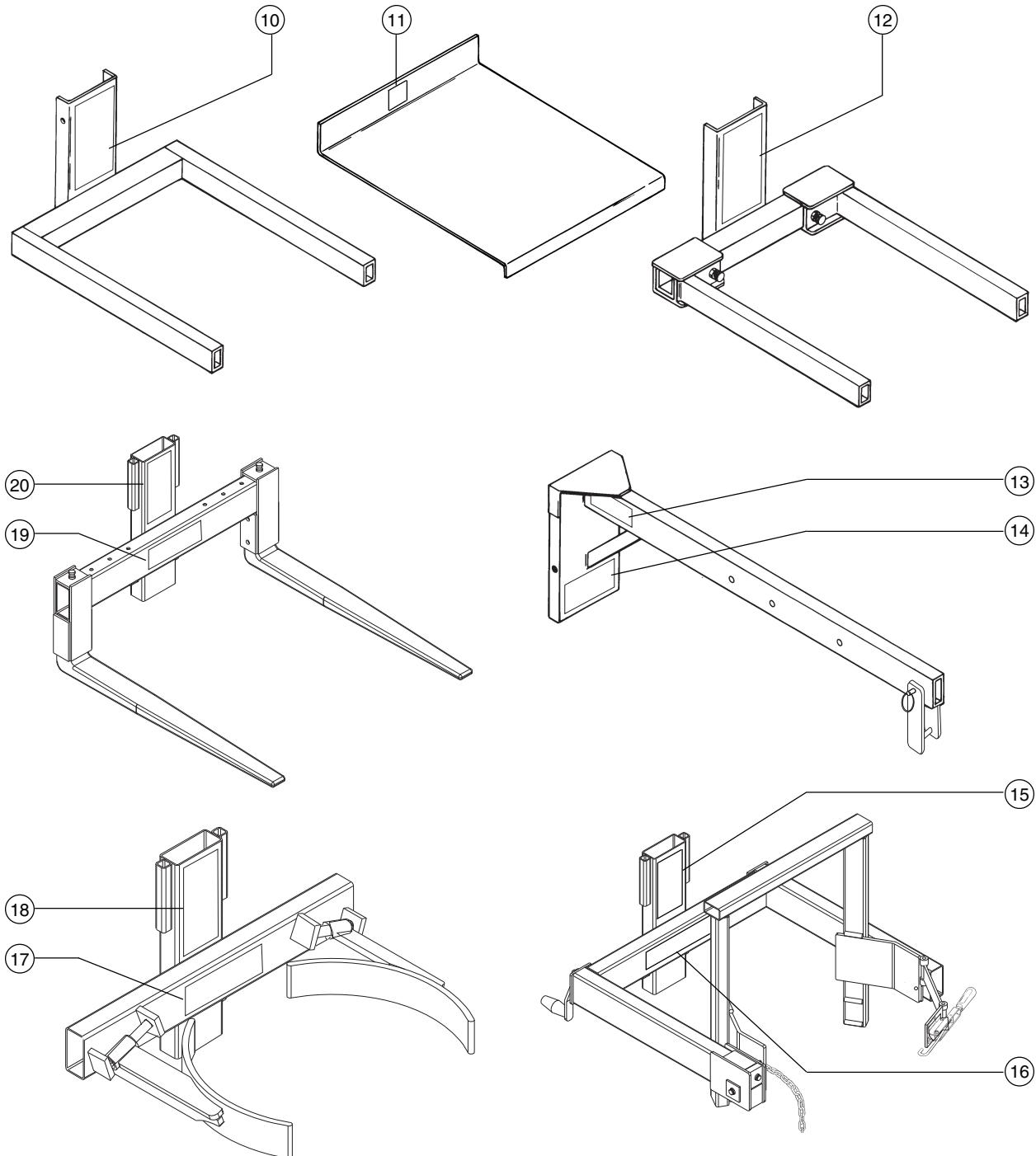


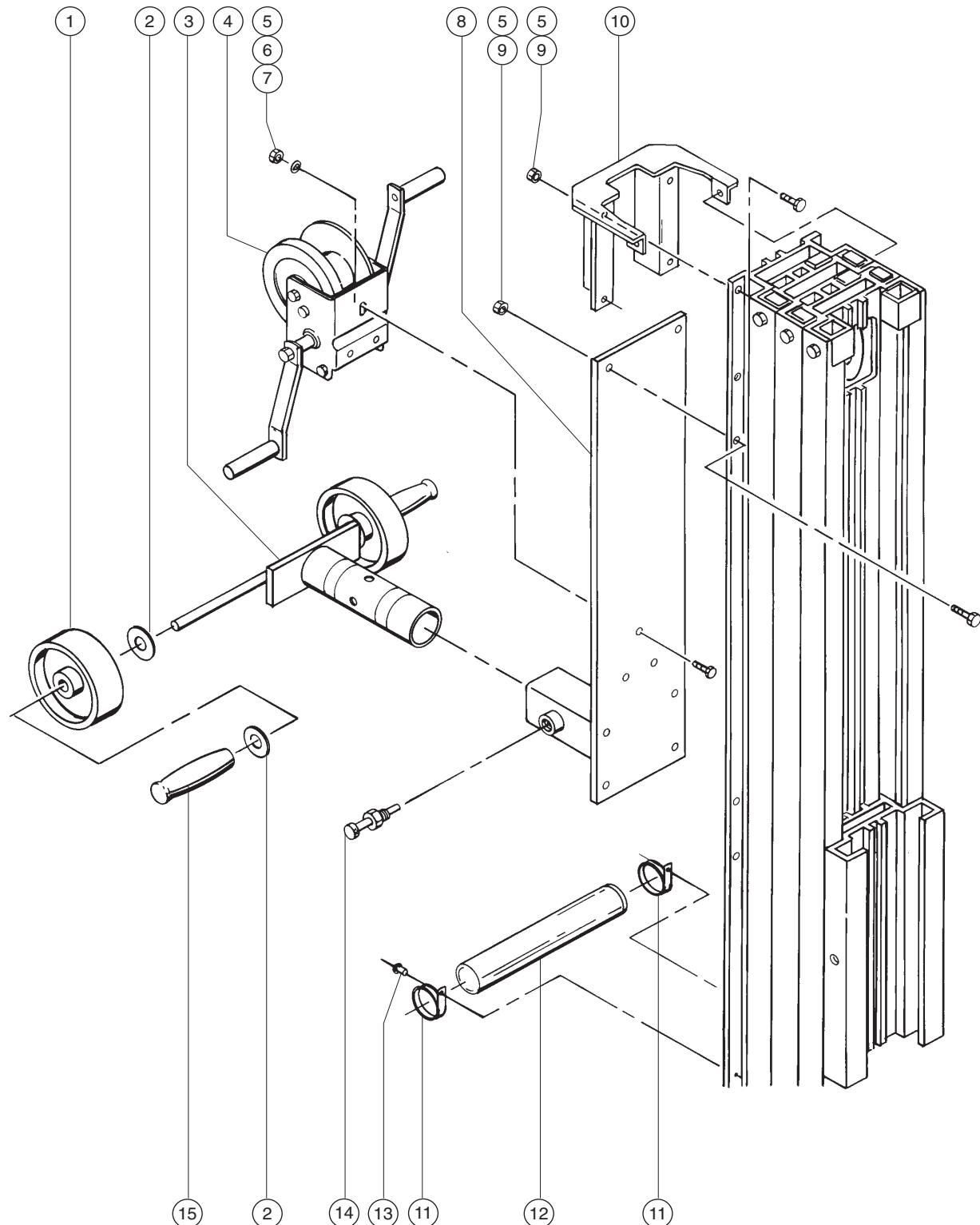
FIGURE 7-A

Index	Part No.	Description	Quantity This Figure
10	32687	Warning - Standard Fork Safety and Set-up	1
11	32775	Warning - Fall Hazard.....	1
12	32714	Warning - Standard Fork Safety and Set-up	1
13	32716	Notice - Boom Set-up.....	2
14	32717	Notice - Boom Safety.....	1
15	32773	Warning - Rotating Barrel Handler Safety	1
16	32774	Notice - Rotating Barrel Handler Set-up	1
17	32772	Notice - Vertical Barrel Stacker Set-up	1
18	32771	Warning - Vertical Barrel Stacker Safety	1
19	32715	Notice - Flat Fork Set-up	1
20	32718	Warning - Flat Fork Safety	1

Figure 7-B

Number 1 Mast Attached Parts

REV A



REV A

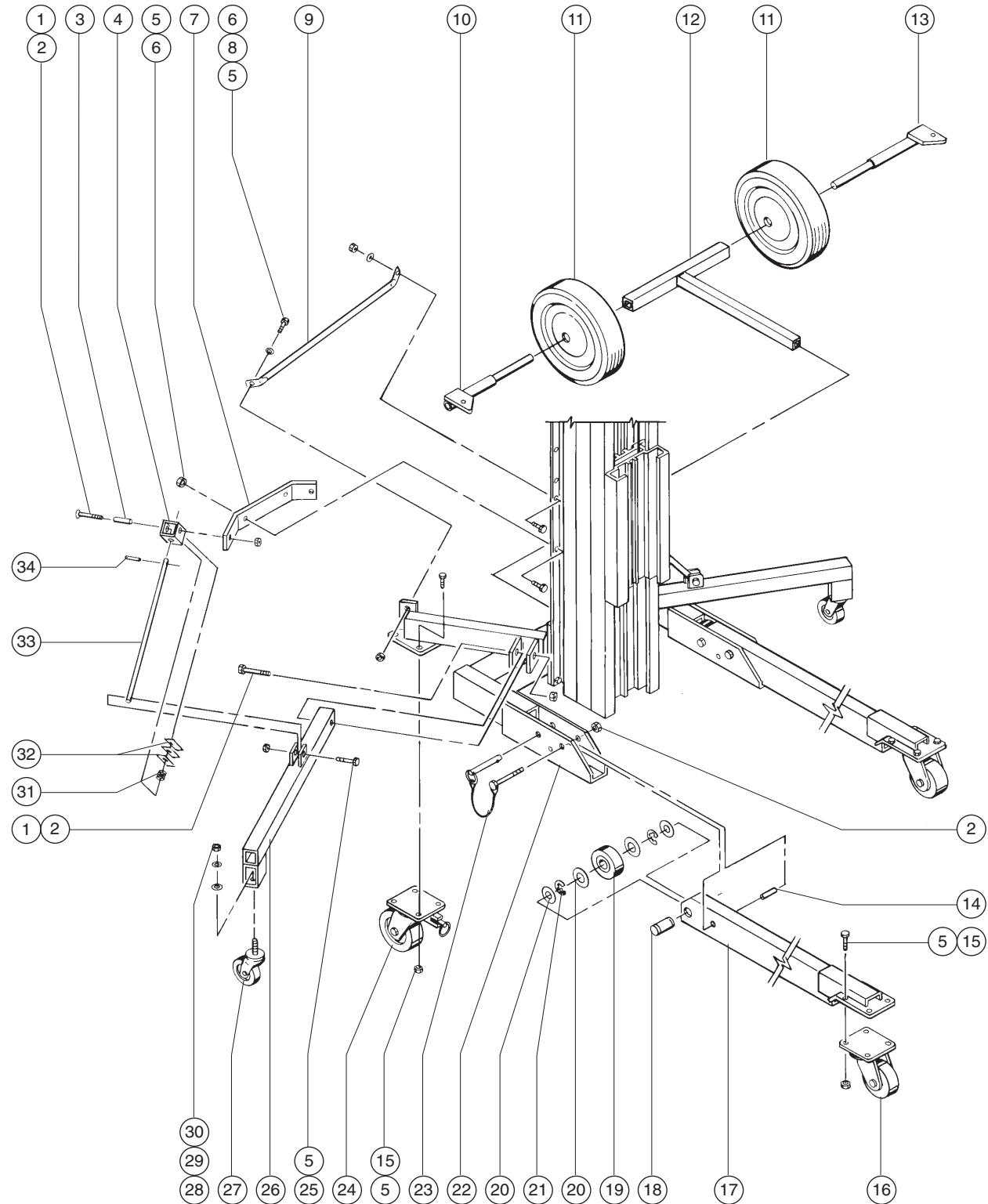
FIGURE 7-B

Index	Part No.	Description	Quantity This Figure
26	57788	Wheel, 6 x 2 inches	2
—	37202	Inner Axle Bushing	
2	6564	Washer - Shim, 0.781 x 1.312 x 0.093 inch	4
3	32935	Weldment - Loading Wheels (wheels not included) (before 5595-03794)	1
—	32302	Tape - Shim, 0.75 x 0.10 inch	13 inches (33 cm)
—	35819	Weldment - Loading Wheel (includes decal) (from 5595-03794)	
4	Ref.	Winch Assembly (refer to figures 7-L or 7-M, pages 7-30 or 7-32)	—
5	4828	Nut - Nylock, 3/8 -16	7
6	6638	Washer - Flat, 1/4 inch	3
7	6175	Screw - HHC, 3/8 -16 x 1 inch, GR 5	3
8	32888	Plate - Winch Mounting (includes decal) (before 5595-03794)	1
—	33539	Plate - Winch Mounting (includes decal) (from 5595-03794 to 5501-14370)	—
—	80162	Plate - Winch Mounting (includes decal) (from 5501-14371 to 5501-15094 and from SLA02-15095 to SLA04-25258)	—
9	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	4
10	32482	Weldment - Pulley Guard	1
11	6653	Clamp - Rubber Cushioned	2
12	6600	Container - Manual Storage	1
—	32282	Operator's Manual	—
13	7265	Rivet - Steel, 0.375 x 0.25 inch	2
14	32375	Lock Pin Assembly	1
15	6412	Handle - Grip	2

Figure 7-C

Standard Base Components

REV A



REV A

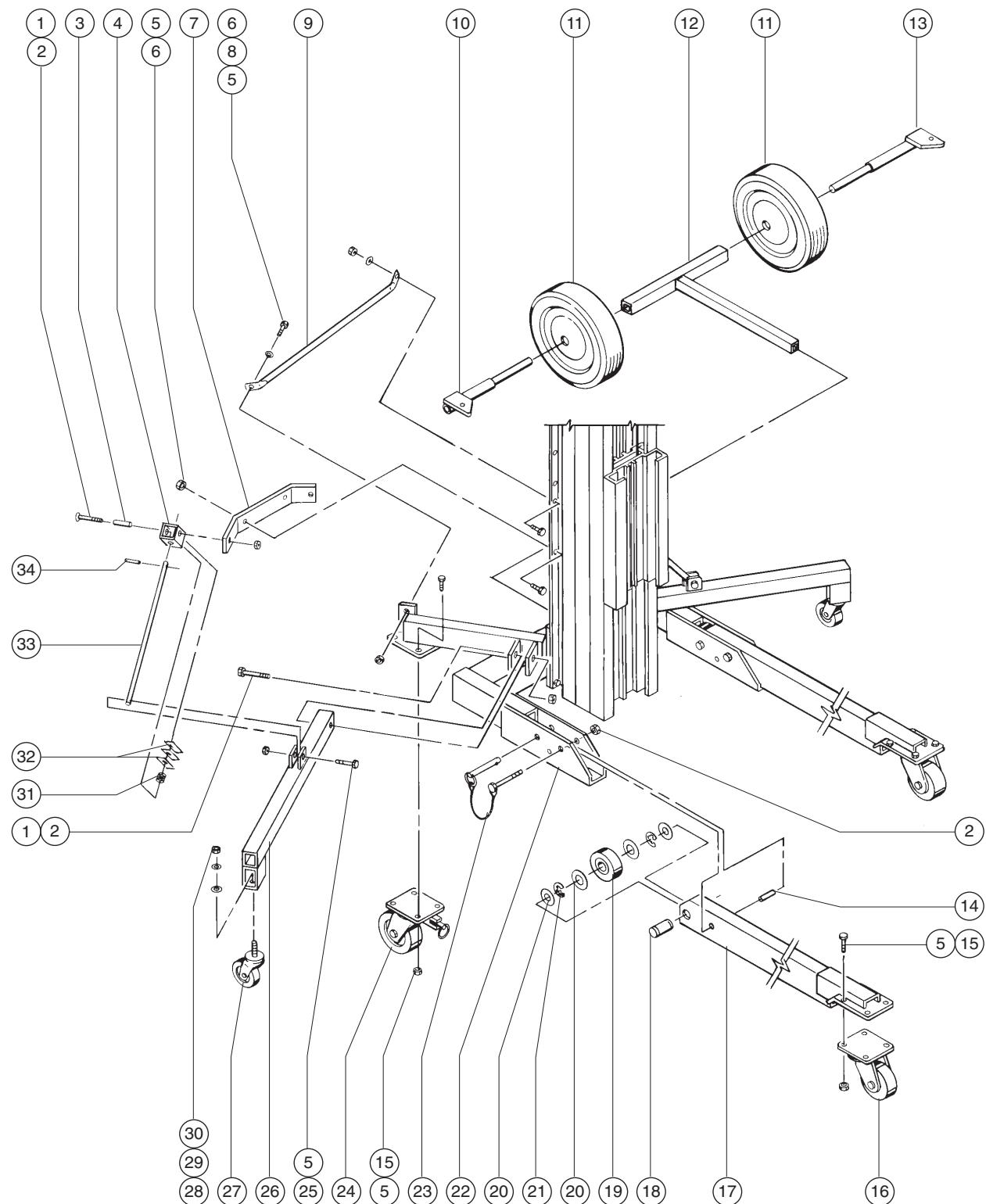
FIGURE 7-C

Index	Part No.	Description	Quantity This Figure
—	80171-S	Standard Base Assembly with Decals (SLA-5)	—
—	80172-S	Standard Base Assembly with Decals (SLA-10)	—
—	80173-S	Standard Base Assembly with Decals (SLA-15)	—
—	80174-S	Standard Base Assembly with Decals (SLA-20)	—
—	80175-S	Standard Base Assembly with Decals (SLA-25)	—
1	10598	Screw - HHC, 1/2 -13 x 3 inches, GR 5	6
2	6086	Nut - Low Profile Nylock, 1/2 -13	6
3	32576	Tube - Stabilizer Pivot	2
4	32578	Tube - Stabilizer Clamp	2
5	4828	Nut - Nylock, 3/8 -16	24
6	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	10
7	32502P	Bracket - Stabilizer Mounting	1
8	6097	Washer - Flat, 0.375 inch	4
9	32883	Mast Brace - Right Side (shown)	1
—	32884	Mast Brace - Left Side	1
10	32486	Weldment - Axle, Right Side	1
11	6030	Wheel - 0.75 x 2.75 x 10 inches (1.9 x 7 x 25.4 cm)	2
12	32562	Weldment - Axle, Left Side	1
13	33047	Weldment - Transport Wheels	1
14	32509	Tube - Leg Pivot	2
15	6175	Screw - HHC, 3/8 -16 x 1 inch, GR 5	8
16	32480	Caster - Swivel Plate, 4 x 1.5 inches (10.1 x 3.5 cm)	2
17	32879	Weldment - Leg, SL-5 and SL-10 models	2
—	32880	Weldment - Leg, SL-15 models	2
—	32881	Weldment - Leg, SL-20 and SL-25 models	2
18	32524	Tube - Axle	2
19	32495	Wheel, 3.5 x 1.5 inches (8.9 x 3.8 cm)	2

This parts list continues on page 7-11.

FIGURE 7-C

REV A



REV A

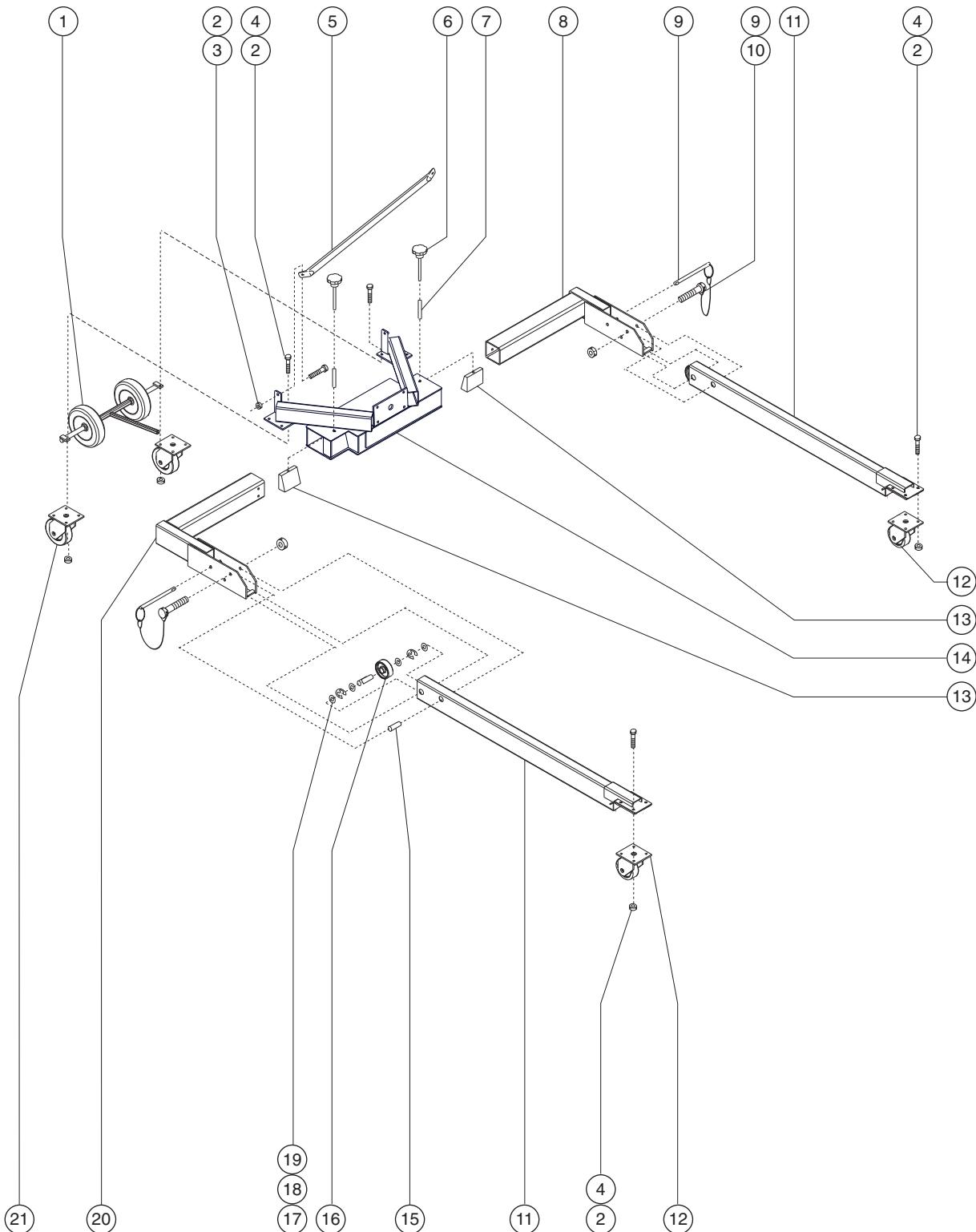
FIGURE 7-C

Index	Part No.	Description	Quantity This Figure
20	30748	Shim - 1.01 x 1.63 x 0.062 inch (25.6 x 41.4 x 1.5 mm)	8
21	32499	E-clip - 0.875 inch	4
22	32489	Weldment - Standard Base	1
23	32940	Pin Assembly - with Lanyard	2
—	32500	Pin - Detent, 0.5 x 2.5 inches (1.3 x 6.3 cm)	—
—	2163	Cable, 1/16 inch, 7 x 7 strands (12 inches 30.4 cm required)	—
—	2238	Cable Oval Sleeve, 1/16 inch	—
—	33298	Screw - HHC, Drilled, 1/2 -13 x 3 inches	—
24	32479	Caster - Swivel Lock, 5 x 2 inches (12.7 x 5.1 cm)	2
25	5224	Screw - HHC, 3/8 -16 x 2 inches, GR 5	2
26	32882	Weldment - Stabilizer	2
27	32307	Caster - Swivel Stem 5 x 1.5 inches (12.7 x 3.8 cm)	2
28	23270	Nut - Low Profile, M12	2
29	6033	Washer - Lock, 1/2 inch	2
30	6035	Washer - Flat, 0.625 x 1.75 inches	2
31	32519	Spring - Stabilizer Latch	2
32	32897	Kit - Plate Latch, Stabilizer (includes 1 each index number 31)	2
33	32516	Brace - Stabilizer	2
34	11337	Pin - Roll, 0.25 x 1.25 inches	2

Figure 7-D

Straddle Base Components

REV A



REV A

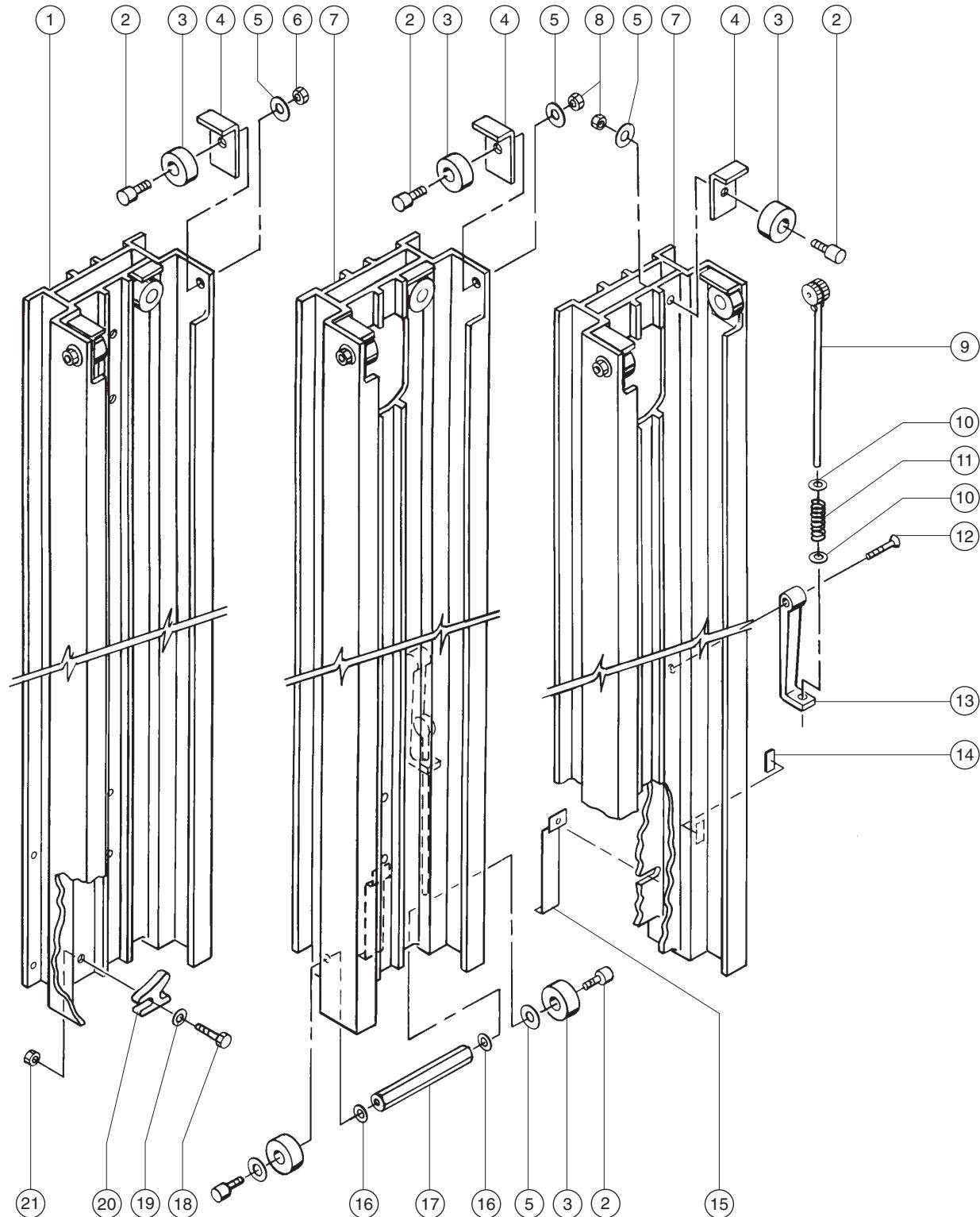
FIGURE 7-D

Index	Part No.	Description	Quantity This Figure
1	32562	Option - Rear Wheel	1
—	32529	Weldment - Transport Wheels	—
—	32486	Weldment - Axle, Right Side	—
—	33047	Weldment - Axle, Left Side	—
—	6030	Wheel - 0.75 x 2.75 x 10 inches (1.9 x 7 x 25.4 cm)	—
2	4828	Nut - Nylock, 3/8 -16	20
3	6175	Screw - HHC, 3/8 -16 x 1 inch, GR 5	8
4	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	12
5	32883	Mast Brace - Right Side (shown)	1
—	32884	Mast Brace - Left Side	1
6	33148	Knob - Leg Lock	2
7	1416-300	Spacer - Leg Lock	2
8	32532	Arm - Adjustable Left Side	1
9	32940	Pin Assembly - with Lanyard	2
—	32500	Pin - Detent, 0.5 x 2.5 inches (1.3 x 6.35 cm)	—
—	2163	Cable, 1/16 inch, 7 x 7 strands (12 inches 30.4 cm required)	—
—	2238	Cable Oval Sleeve, 1/16 inch	—
—	33298	Screw - HHC, Drilled, 1/2 -13 x 3 inches	—
10	6086	Nut - Low Profile Nylock, 1/2 -13	2
11	32879	Weldment - Leg, SL-5 and SL-10 models	2
—	32880	Weldment - Leg, SL-15 models	2
—	32881	Weldment - Leg, SL-20 and SL-25 models	2
12	32480	Caster - Swivel Plate, 4 x 1.5 inches (10.1 x 3.5 cm)	2
13	32534	Wedge - Adjustable Arm	2
14	32527	Weldment - Straddle Base	1
15	32509	Tube - Leg Pivot	2
16	32495	Wheel	2
17	32499	E-clip - 0.875 inch	4
18	30748	Washer - Shim, 1.01 x 1.63 x 0.062 inch (25.6 x 41.4 x 1.5 mm)	8
19	32524	Tube - Axle	2
20	32531	Arm - Adjustable Right Side	1
21	32479	Caster - Swivel Lock, 5 x 2 inches (12.7 x 5.1 cm)	2

Figure 7-E

Mast Components - View 1

REV C



REV C

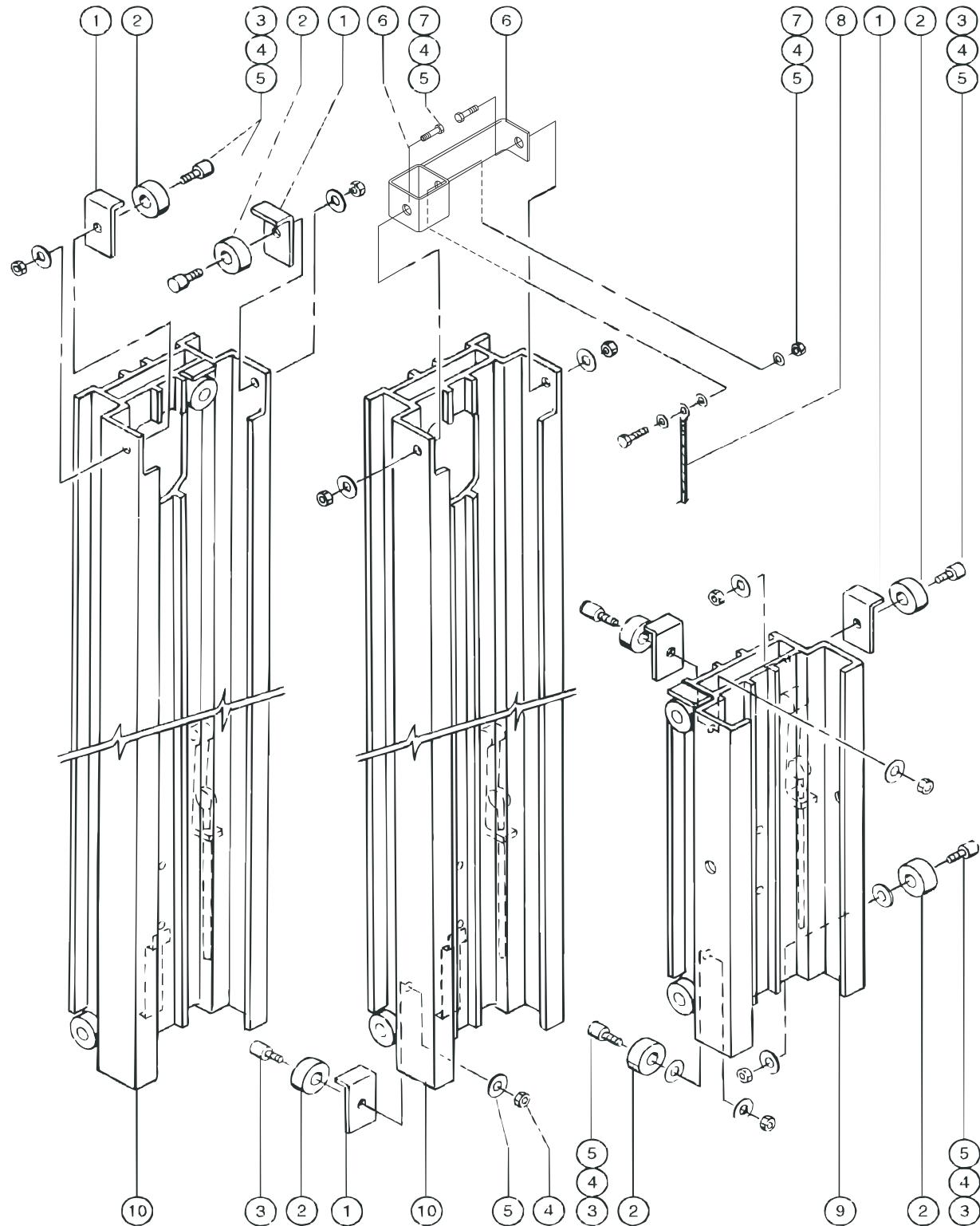
FIGURE 7-E

Index	Part No.	Description	Quantity This Figure
1	32670	Column - Number 1, All Models	1
2	32475	Bolt - Roller	15
3	32473	Roller - Nylatron	15
4	32474P	Guard - Roller	11
5	6095	Washer - Flat, 1/2 inch	15
6	6086	Nut - Low Profile Nylock, 1/2 -13	2
7	32894	Column Assembly - Number 2 through 5, All Models (includes index numbers 8 through 13)	2
8	6198	Nut - Nylock, 1/2 -13	13
9	32899	Safety Brake Stop Assembly	2
10	6638	Washer - Flat,	4
11	32481	Spring - Safety Brake	2
12	17712	Screw - FHS, 3/8 -16 x 1.75 inches	2
13	32497	Ramp - Safety Brake	2
14	33252	Shim - 0.75 x 0.10 inch	3
15	33744	Hold Down Latch Kit (SL2-20 and SL2-25) (before serial number 5599-3362)	2
—	58095	Hold-down Assembly with Decals (SLA-20 and SLA-25) (from serial number 5599-3362)	—
—	33771	Hold Down Latch Kit (SL2-5, SL2-10 and SL2-15) (before serial number 5599-3362)	—
—	58750	Hold Down Assembly with Decals (SL2-5, SL2-10 and SL2-15) (from serial number 5599-3362)	—
16	6052	Washer - Shim, 0.5 x 0.875 x 0.063 inch	2
17	33080	Coupler, SL-20 and SL-25 models only	1
18	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	3
19	12013	Washer - Flat, 0.375 x 0.063 inches	3
20	33198	Down Stop	3
21	4828	Nut - Nylock, 3/8 -16	3

Figure 7-F

Mast Components - View 2

REV B



REV B

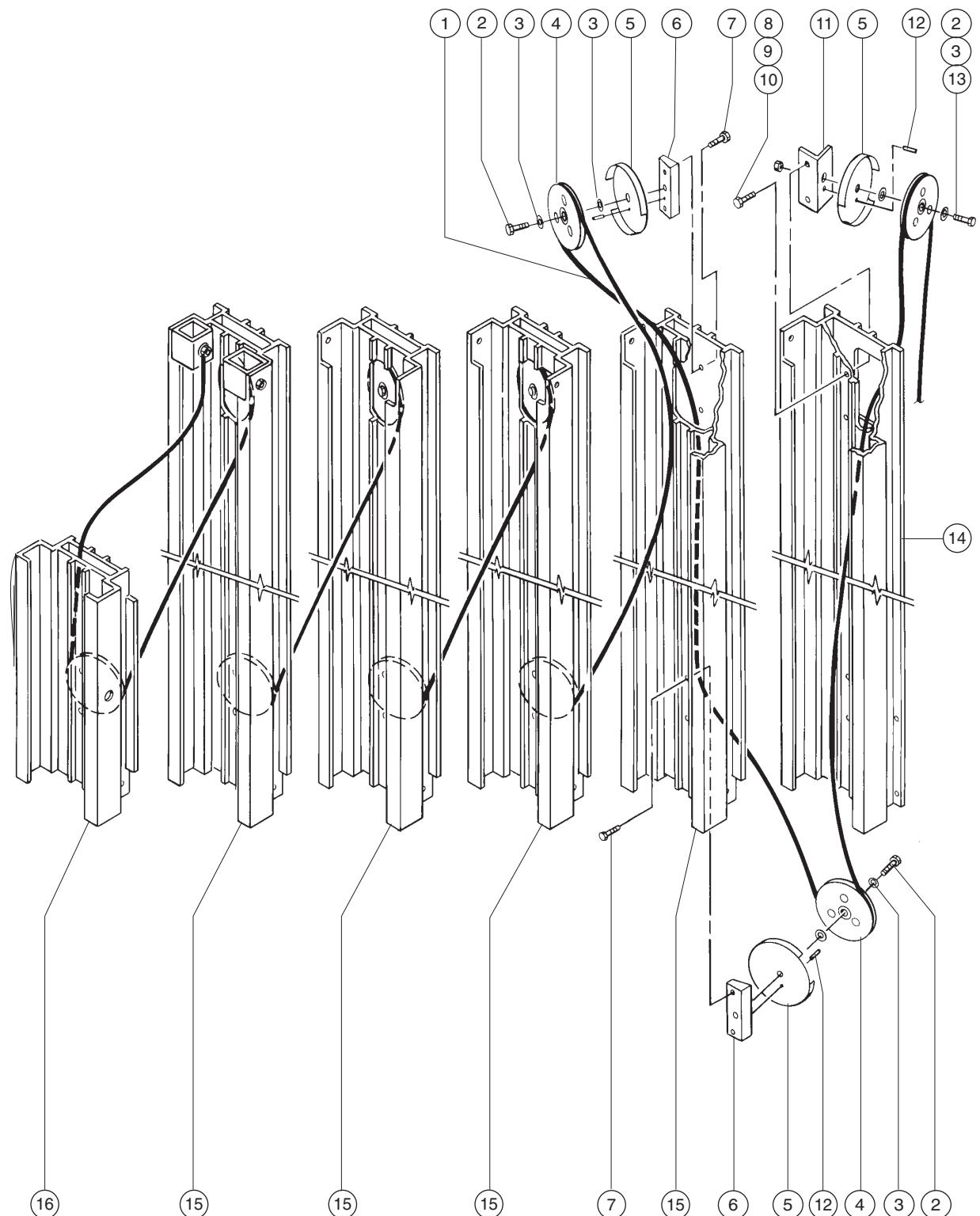
FIGURE 7-F

Index	Part No.	Description	Quantity This Figure
1	32474P	Guard - Roller	8
2	32473	Roller - Nylatron	15
3	32475	Bolt - Roller	15
4	6095	Washer - Flat, 1/2 inch	16
5	6198	Nut - Nylock, 1/2 -13	18
6	80988	Kit - Cable Anchor (before serial number SLA03-20409)	1
—	80985	Cable Anchor (after serial number SLA03-20408)	—
7	10587	Screw - HHC, 1/2 -13 x 1.75 inches, GR 5	3
8	32901	Cable Assembly - SL-5	1
—	32902	Cable Assembly - SL-10	—
—	32903	Cable Assembly - SL-15	—
—	32904	Cable Assembly - SL-20	—
—	32905	Cable Assembly - SL-25	—
9	32895	Carriage Assembly - SL-5, 10 and 15 models	1
—	32896	Carriage Assembly - SL-20 and 25 models	1
10	32894	Column Assembly - Number 2 Through 5, All Models	2

Figure 7-G

Mast Components - Pulleys and Cable

REV C



REV C

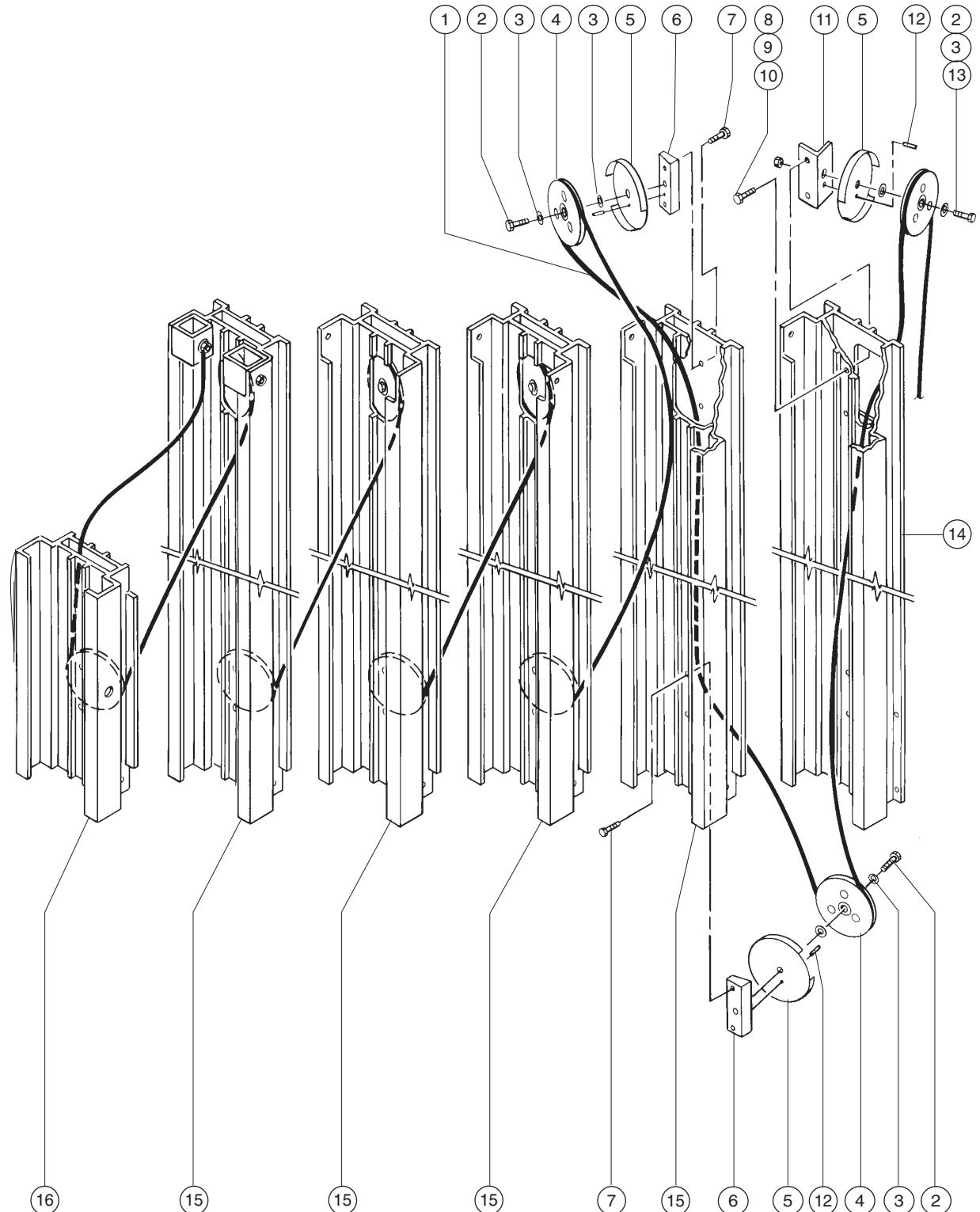
FIGURE 7-G

Index	Part No.	Description	Quantity This Figure
1	32901	Cable Assembly - SL-5	1
—	32902	Cable Assembly - SL-10	—
—	32903	Cable Assembly - SL-15	—
—	32904	Cable Assembly - SL-20	—
—	32905	Cable Assembly - SL-25	—
2	10597	Screw - HHC, 1/2 -13 x 1.25 inches, GR 5	10
3	6052	Washer - Shim, 0.5 x 0.875 x 0.063 inch	20
4	32469	Pulley with Bearing	10
5	32476P	Guard - Pulley	10
6	32470P	Mount - Pulley	9
7	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5	18
8	6019	Screw - HHC, 3/8 -16 x 1.25 inches, GR 5	2
9	6097	Washer - Flat, 0.375 inch	2
10	4828	Nut - Nylock, 3/8 -16	2
11	32471P	Mount - Pulley, Number 1 Mast	1
12	32483	Pin - Roll, 0.25 x 0.50 inch	10
13	6086	Nut - Low Profile Nylock, 1/2 -13	1
14	32670	Column - Number 1, All Models (before serial number 5594-00000)	1
—	35475	Column - Number 1, All Models (from serial number 5594-00001 thru 5594-03941)	—
—	33777	Column - Number 1, All Models (after serial number 5594-03942)	—
15	32894	Column Assembly - Number 2 Through 5	4
—		SL-5 (from serial number 5594-00101 thru 5594-04447)	—
—		SL-10 (from serial number 5594-00101 thru 5594-04302)	—
—		SL-15 (from serial number 5594-00101 thru 5594-04293)	—
—		SL-20 (from serial number 5594-00101 thru 5594-04286)	—
—		SL-25 (from serial number 5594-00101 thru 5594-04350)	—
—	35482	Column Assembly - Number 2 Through 5	4
—		SL-5 (after serial number 5594-04447)	—
—		SL-10 (after serial number 5594-04302)	—
—		SL-15 (after serial number 5594-04293)	—
—		SL-20 (after serial number 5594-04286)	—
—		SL-25 (after serial number 5594-04350)	—

This parts list continues on page 7-21.

FIGURE 7-G

REV C



REV C

FIGURE 7-G

Index	Part No.	Description	Quantity	This Figure
16	32895	Carriage Assembly	1	
	—	SL-5 (from serial number 5594-00101 thru 5594-04447)	—	
	—	SL-10 (from serial number 5594-00101 thru 5594-04302)	—	
	—	SL-15 (from serial number 5594-00101 thru 5594-04293)	—	
—	35488	Carriage Assembly	1	
	—	SL-5 (after serial number 5594-04447)	—	
	—	SL-10 (after serial number 5594-04302)	—	
	—	SL-15 (after serial number 5594-04293)	—	
—	32896	Carriage Assembly	1	
	—	SL-20 (from serial number 5594-00101 thru 5594-04286)	—	
	—	SL-25 (from serial number 5594-00101 thru 5594-04350)	—	
—	35486	Carriage Assembly	1	
	—	SL-20 (after serial number 5594-04286)	—	
	—	SL-25 (after serial number 5594-04350)	—	

Figure 7-H

Load Handling Attachments - Forks

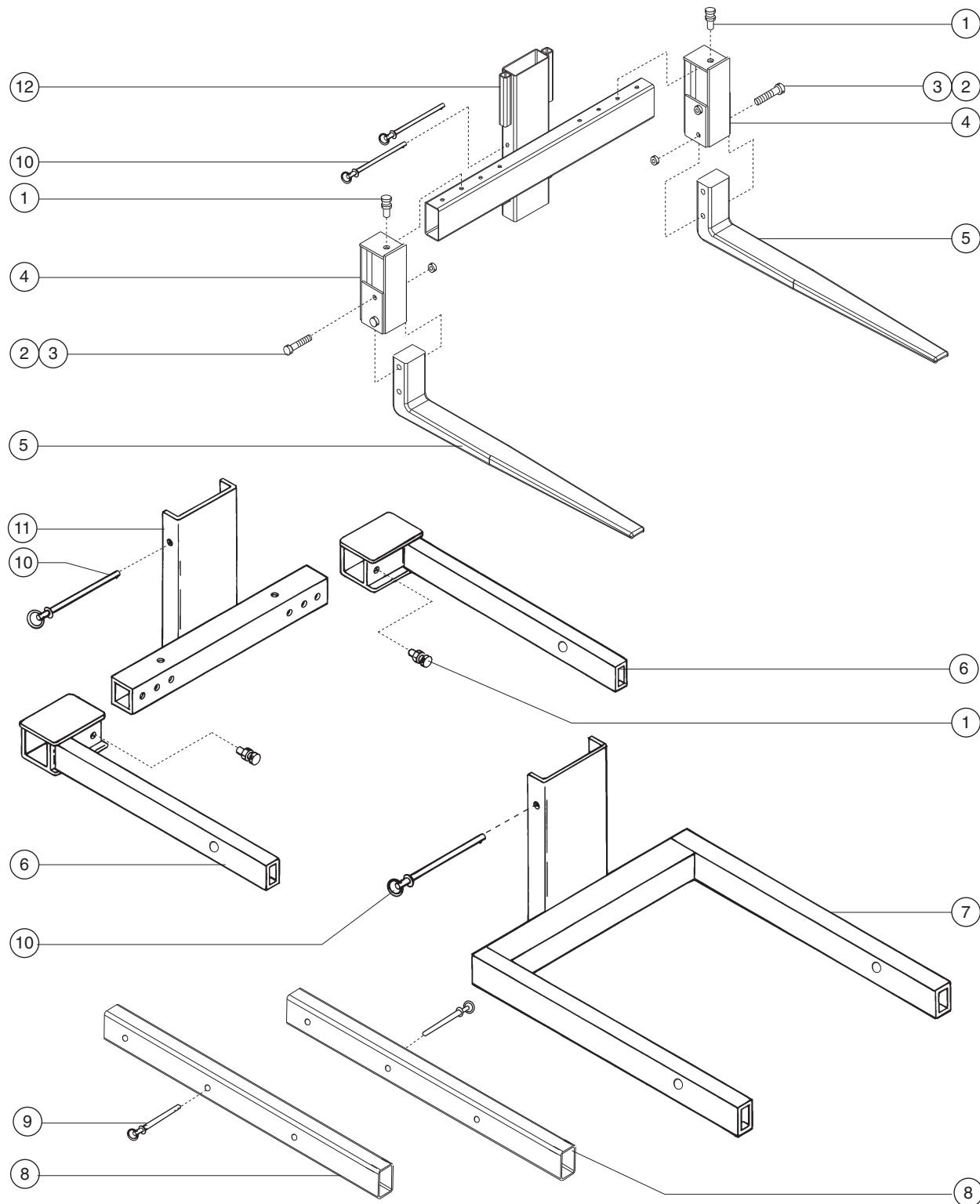


FIGURE 7-H

Index	Part No.	Description	Quantity	This Figure
—	32563	Option - Standard Fork, Complete (includes index numbers 7 and 8)	—	
—	32564	Option - Adjustable Fork, Complete (includes index numbers 1, 6 , 8 and 9)	—	
—	32566	Option - Flat Fork, Complete (includes index numbers 1 through 5, 8 and 10) SL-5, 10 and 15 models only	—	
—	32565	Option - Non-marking Extrusion, Standard and Adjustable Forks	—	
—	32944	Option - Fork Extensions, Standard and Adjustable Forks	—	
1	32375	Pin - Fork Lock	4	
2	8220	Screw - HHC, 1/2 -13 x 4 inches, GR 5	4	
3	6086	Nut - Low Profile Nylock, 1/2 -13	2	
4	32541	Weldment - Fork Slider, SL-5, 10 and 15 models only	2	
5	32539	Fork - Flat, SL-5, 10 and 15 models only	2	
6	32548	Fork - Adjustable	2	
7	32906	Fork - Standard (includes decal)	1	
8	32943	Tube - Fork Extension, Standard and Adjustable Forks	2	
9	32500	Pin - Detent, 0.5 x 2.5 inches (1.3 x 6.35 cm)	2	
10	32526	Pin - Retaining	3	
11	32908	Carrier - Adjustable Fork (includes decals)	1	
12	32907	Carrier - Adjustable Flat (includes decals), SL-5, 10 and 15 models only	1	

Figure 7-I

Load Handling Attachments - Boom, Pipe Cradle and Load Platform

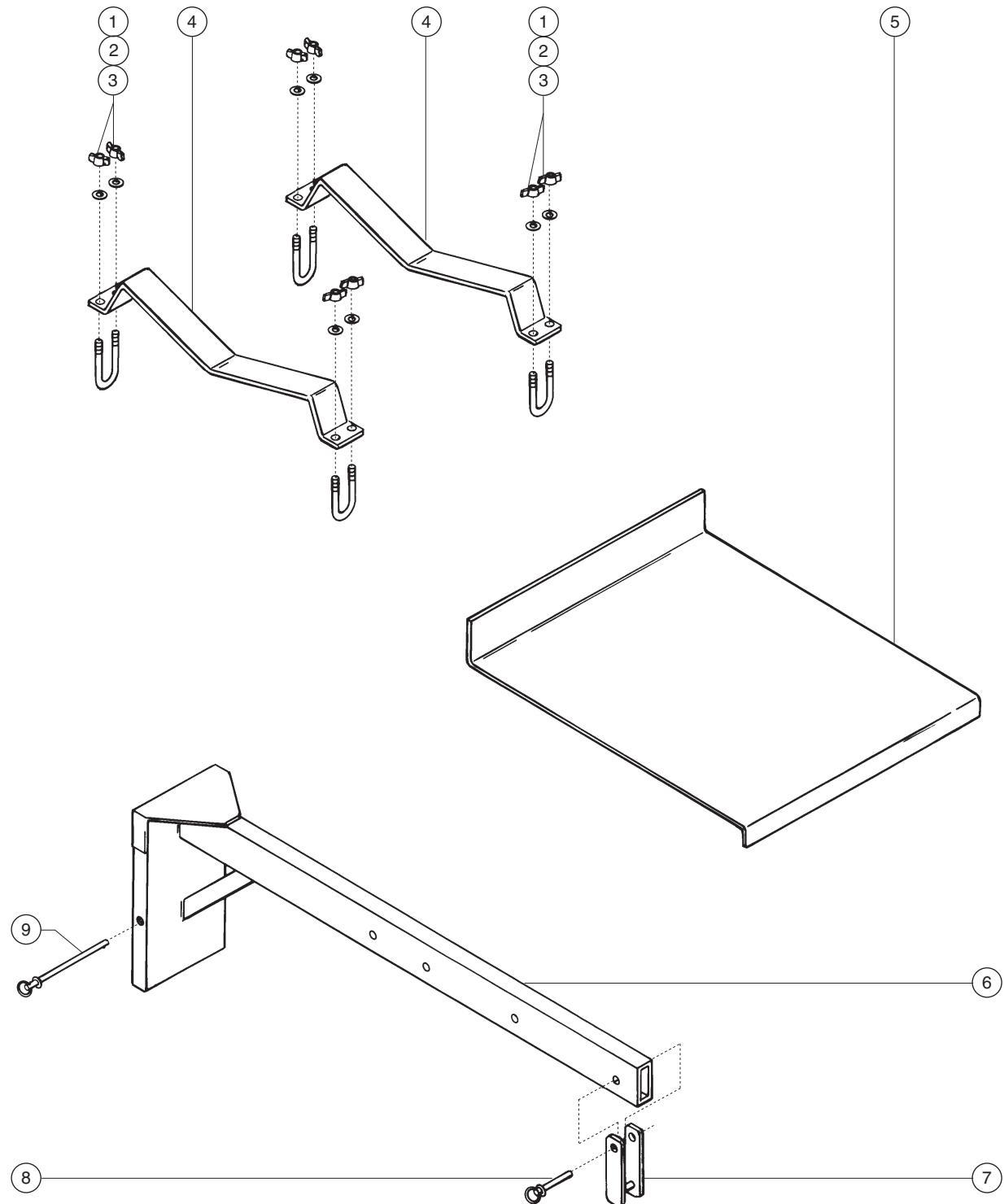


FIGURE 7-I

Index	Part No.	Description	Quantity This Figure
—	32569	Option - Pipe Cradle, Complete (includes index numbers 1 through 4)	—
—	32568	Option - Load Platform, Complete (includes index number 5)	—
—	32567	Option - Boom, Complete (includes index number 5)	
1	8170	Nut - Wing, 1/4 -20	8
2	6638	Washer - Flat, 1/4 inch	8
3	33045	U-bolt, 1/4 -20	4
4	33044P	Cradle - Pipe	2
5	32937	Weldment - Load Platform (includes decals)	1
6	32887	Boom Assembly (includes decals)	1
7	32579	Weldment - Lifting Clevis	1
8	32500	Pin - 0.5 x 2.5 inches (1.27 x 6.35 cm)	1
9	32526	Pin - 0.5 x 7.75 inches (1.27 x 19.9 cm)	1

Figure 7-J

Load Handling Attachment - Vertical Barrel Stacker

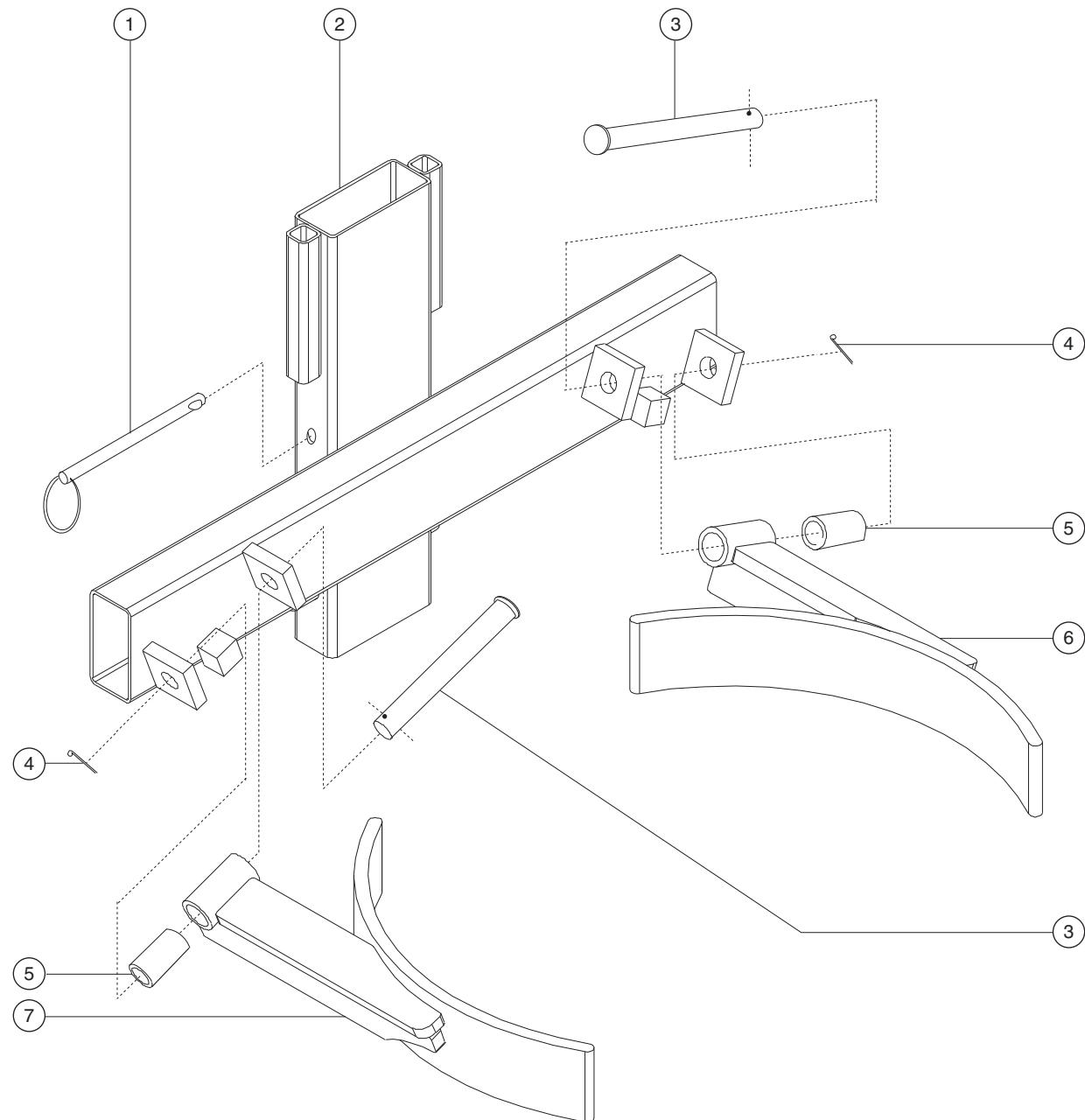


FIGURE 7-J

Index	Part No.	Description	Quantity This Figure
—	32570	Option - Vertical Barrel Stacker, Complete, SL-5, 10 and 15 models only	—
1	32526	Pin - 0.5 x 7.75 inches	1
2	32909	Carrier - Vertical Barrel Stacker (includes decals), SL-5, 10 and 15 models only	—1
3	33126	Pin - 1 x 6 inches (2.54 x 15.24 cm)	2
4	33247	Pin - Cotter, 0.188 x 1.75 inches	4
5	33217	Bushing - 1.25 x 1 x 2.5 inches (3.2 x 2.54 x 6.35 cm)	2
6	32911	Arm - Lifting, Left Side (includes 1 each index number 5) SL-5, 10 and 15 models only	1
7	32910	Arm - Lifting, Right Side (includes 1 each index number 5) SL-5, 10 and 15 models only	1

Figure 7-K

Load Handling Attachment - Rotating Barrel Handler

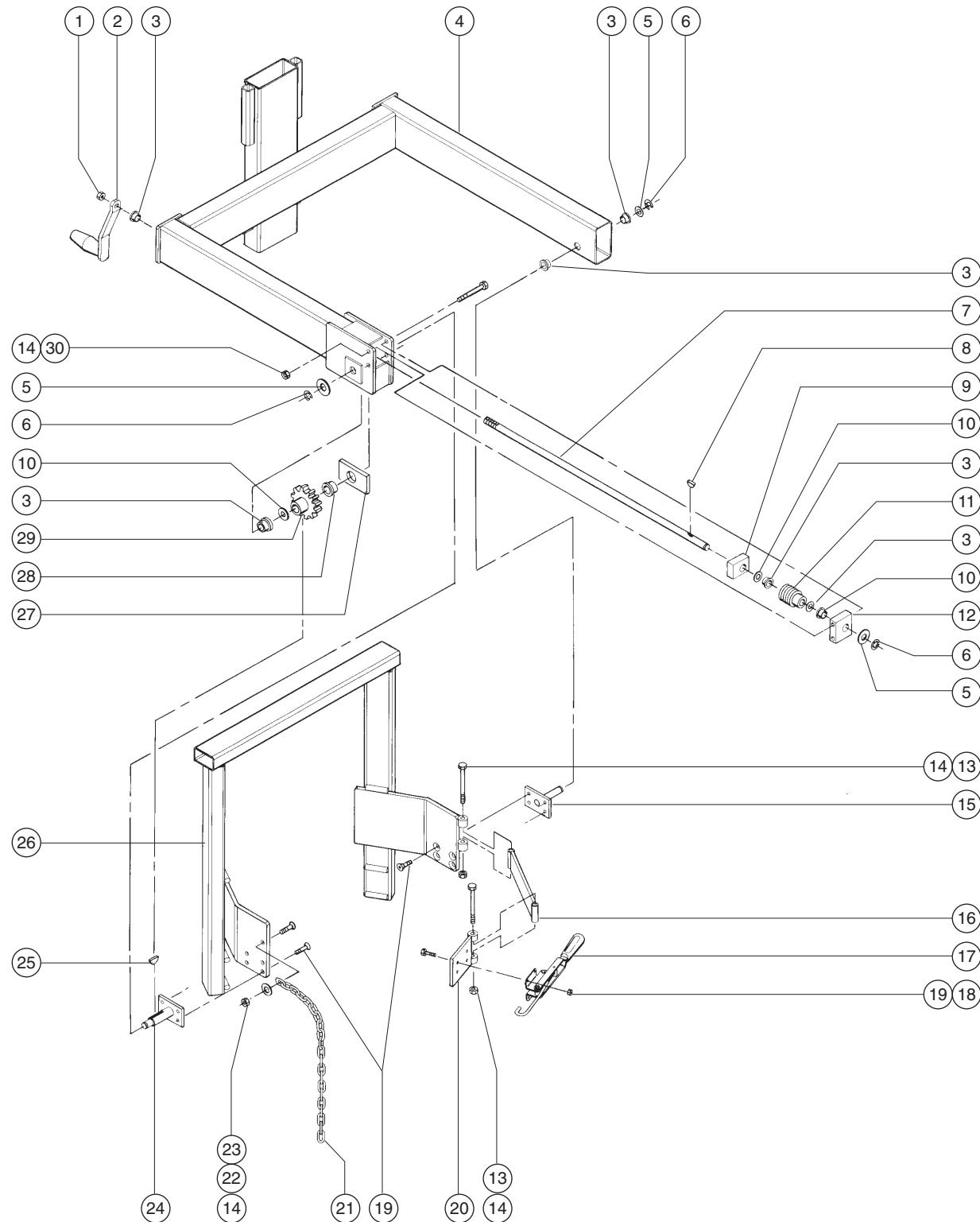


FIGURE 7-K

Index	Part No.	Description	Quantity This Figure
—	32571	Option - Rotating Barrel Handler, Complete SL-5, 10 and 15 models only	—
1	6198	Nut - Nylock, 1/2 -13	1
2	33143	Handle - Crank, 6 inches	1
3	33187	Bushing - Flange, 0.625 x 0.75 x 0.50 inch	6
4	33108	Carrier - Mounting, Rotating Barrel Handler	1
5	6898	Washer - Shim, 0.625 x 1.188 x 0.064 inch	3
6	33222	Snap Ring - 0.625 inch	3
7	33096	Shaft - Crank	1
8	33223	Key - Woodruff, 0.187 x 0.187 x 0.75 inch	1
9	33112	Block - Crank Shaft	1
10	6563	Washer - Shim, 0.781 x 1.312 x 0.030 inch	3*
11	33221	Gear - Worm	1
12	33113	Block - Mounting, Crank Shaft	1
13	6605	Screw - HHC, 3/8-16 x 3.5 inches, GR 5	2
14	7713	Nut - Low Profile, Nylock, 3/8 -16	5
15	33118	Bracket - Mounting, Barrel Cradle	1
16	33246	Bracket - Gate	1
17	33248	Clamp - Barrel	1
18	6002	Nut - Low Profile Nylock, 5/16 x 18	4
19	33250	Screw - FHS, 5/16 x 18 x 0.75 inch	12
20	33225	Hinge - Barrel Cradle	1
21	33249	Chain - Barrel Cradle	1
22	6097	Washer - Flat, 0.375 inch	1
23	16439	Screw - FHS, 3/8 -16 x 1 inch	1

* Quantity listed for this item is approximate. Actual quantity may vary, to ensure proper fit.

This parts list continues on page 7-29.

FIGURE 7-K

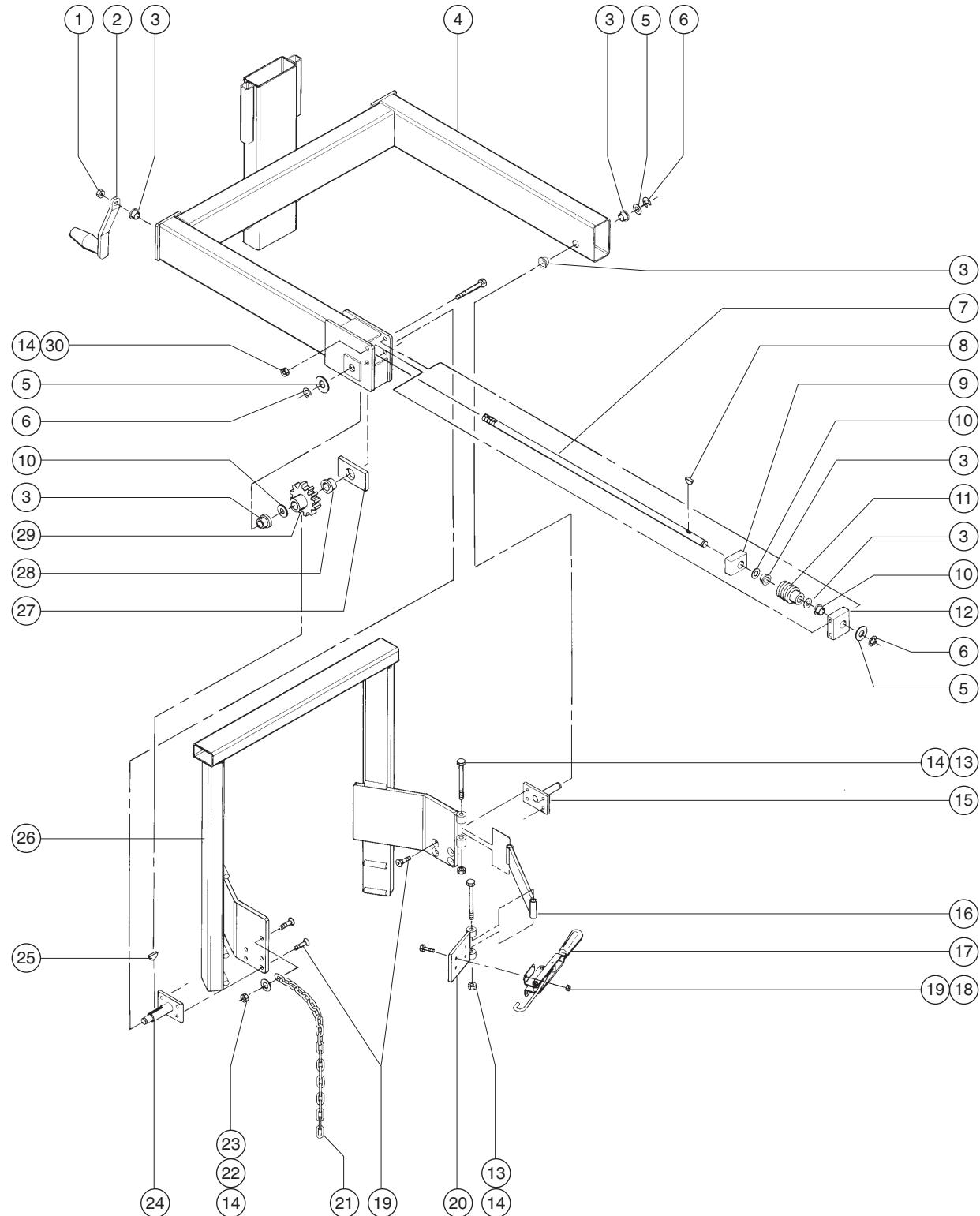


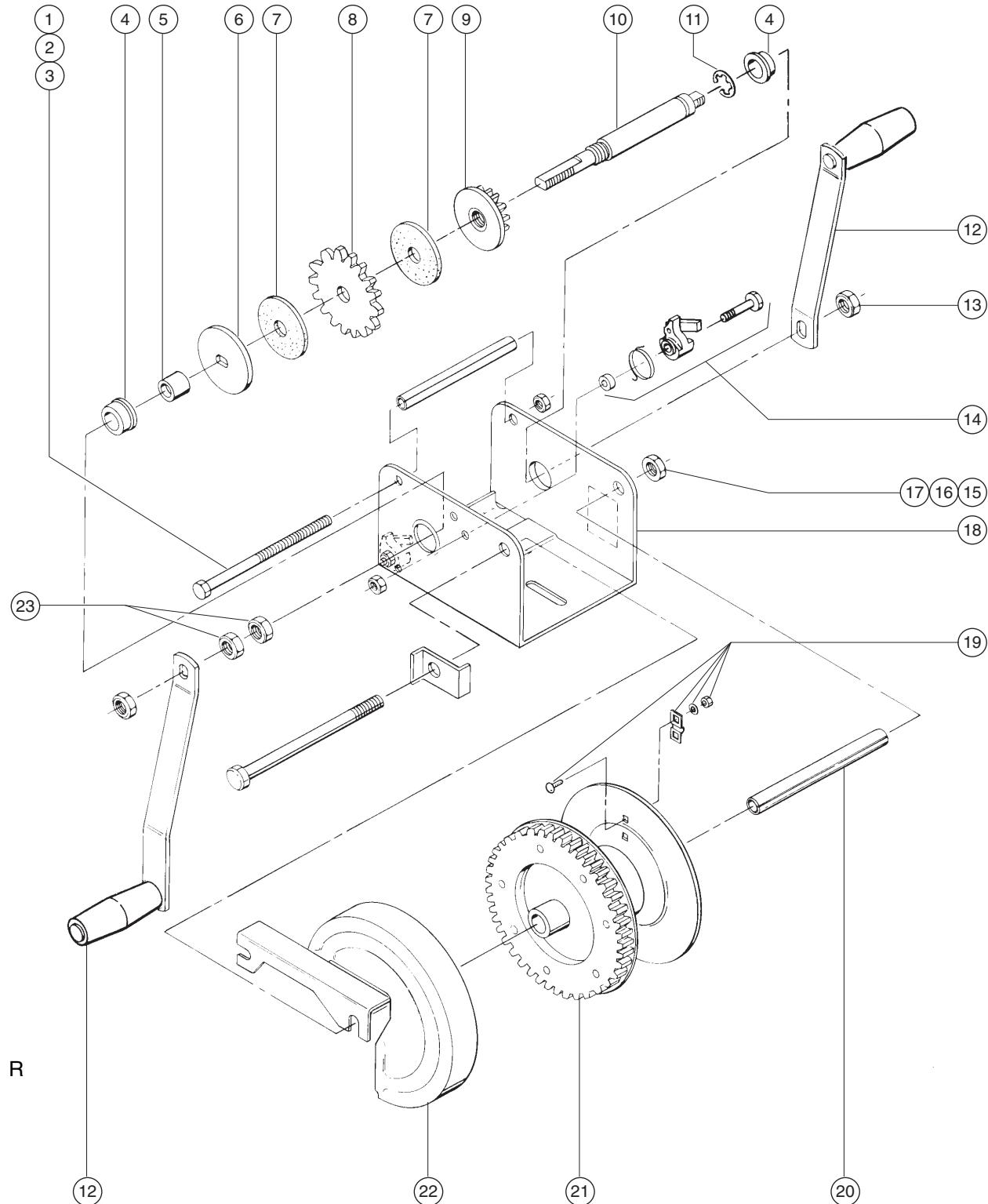
FIGURE 7-K

Index	Part No.	Description	Quantity This Figure
24	33117	Bracket - Mounting, Barrel Cradle	1
25	28986-125	Key - Square, 0.188 x 0.188 x 1.25 inch (4.7 x 4.7 31.7 mm)	1
26	33116	Bracket - Barrel Cradle	1
27	33120	Plate - Support, Drive Gear	1
28	33218	Bushing - Flange, 0.875 x 1 x 0.625 inch	1
29	33220	Gear - Drive	1
30	6326	Screw - HHC, 3/8 -16 x 3 inches, GR 5	2

Figure 7-L

Single Speed Winch

REV B



REV B

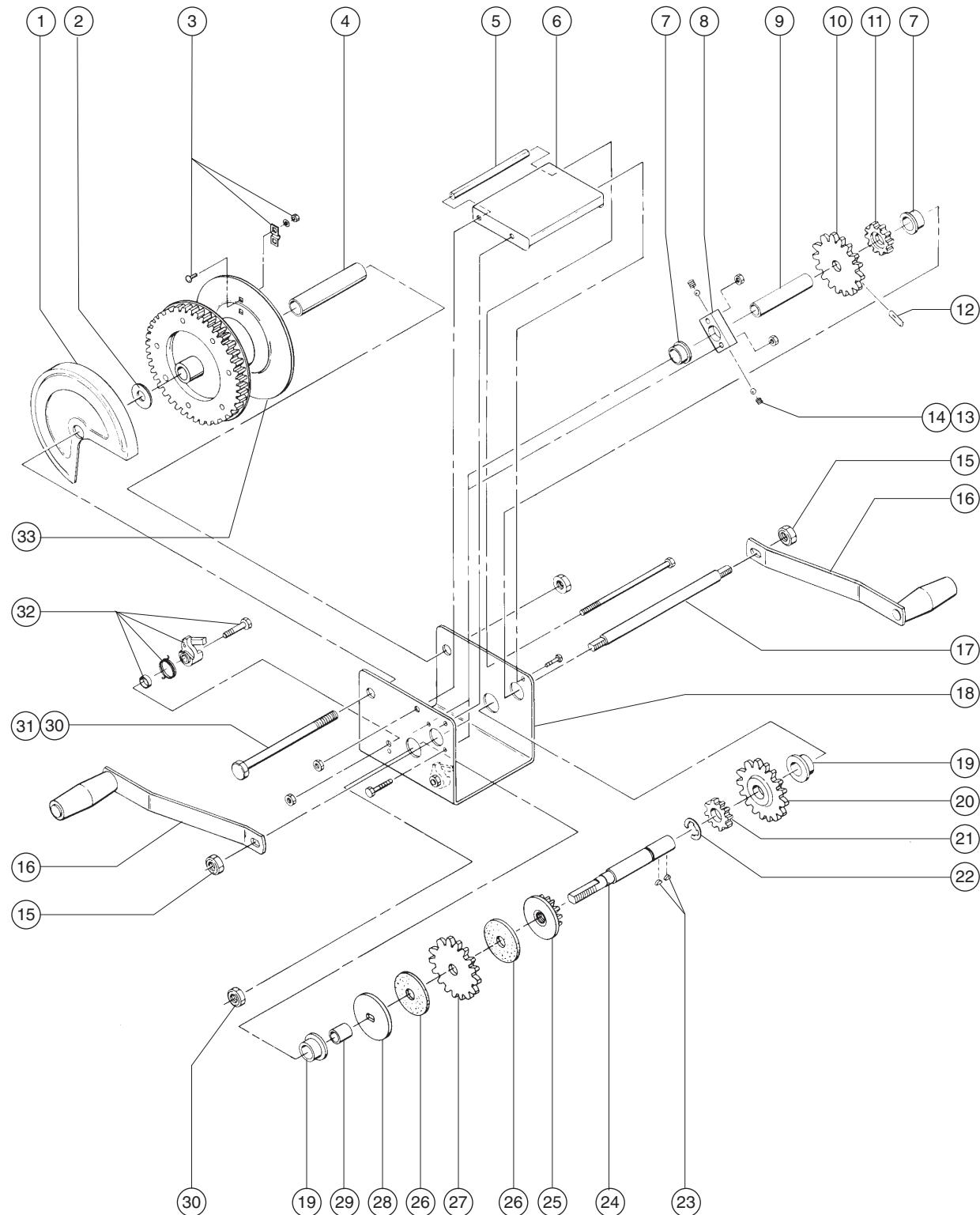
FIGURE 7-L

Index	Part No.	Description	Quantity This Figure
—	32945	Single Speed Winch Assembly - Complete (handles not included)	—
1	7256	Screw - HHC, 5/16 -18 x 6 inches, GR 5	1
2	7584	Spacer - Frame	1
3	5319	Nut - Lock, 5/16 -18	1
4	6199	Bushing - Pinion Shaft	2
5	32890	Spacer - Pinion Shaft	1
6	7591	Pinion Plate	1
7	7571	Friction Disk	2
8	6777	Ratchet Gear	1
9	7590	Pinion Gear	1
10	32891	Pinion Shaft	1
11	6200	Retaining Ring, 0.75 inches	1
12	33143	Handle, 6 inches (15.2 cm) SL-5 models	2
—	33144	Handle, 8 inches (20.3 cm) SL-10, 15, 20 and 25 models	2
13	6086	Nut - Low Profile Nylock, 1/2 -13	2
14	40458	Ratchet Kit	1
15	23415	Nut - Low Profile Lock, 1/2 -13	1
16	6184	Spacer - Drum	1
17	6185	Drum Bolt	1
18	32892	Frame and Drum Support	1
19	6190	Cable Keeper Kit	1
20	6184	Spacer - Drum	1
21	Ref.	Drum Assembly	—
22	6770	Cover - Drum Gear	1
23	6034	Nut - Hex Jam, 1/2 -13	2

Figure 7-M

Two Speed Winch

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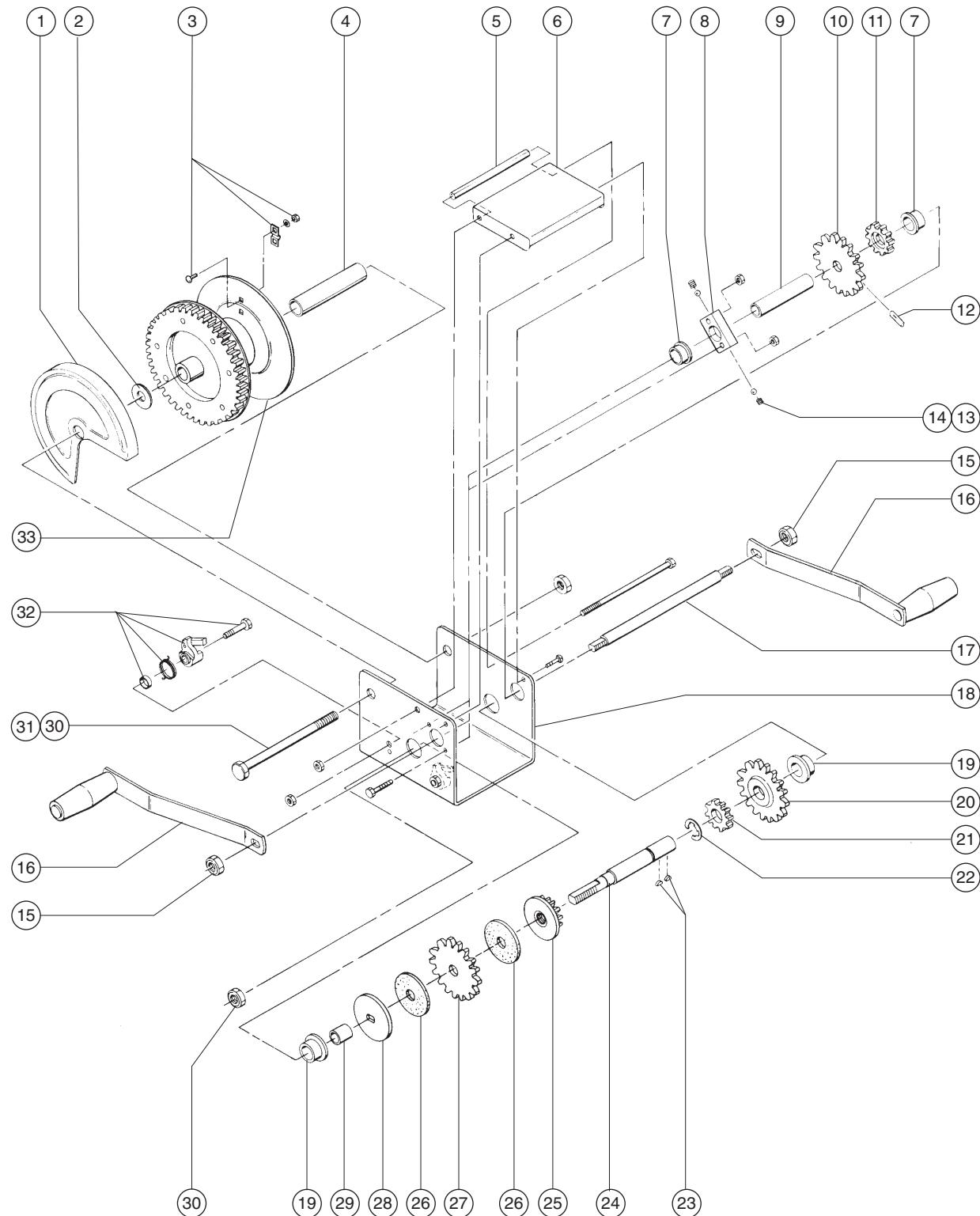
FIGURE 7-M

Index	Part No.	Description	Quantity This Figure
—	32946	Two Speed Winch Assembly - Complete (handles not included)	—
1	32776	Cover - Drum Gear	1
2	32777	Washer - Drum Bolt	1
3	6190	Cable Keeper Kit	1
4	32778	Spacer - Drum	1
5	32779	Spacer - Frame	1
6	32780	Cover - Input Shaft.....	1
7	32859	Bushing - 0.63 inch I.D.	2
8	32860	Housing - Spring and Ball Detent	1
9	32861	Spacer - Input Shaft.....	1
10	32862	Gear - Input Shaft, 24 Tooth	1
11	32863	Gear - Input Shaft, 12 Tooth	1
12	32864	Pin - Drive, 0.187 inch	1
13	32865	Spring - Detent.....	2
14	32866	Ball - Detent	2
15	6086	Nut - Low Profile Nylock, 1/2 -13	2
16	33143	Handle - 6 inches (15.2 cm) SL-5 models	2
—	33144	Handle - 8 inches (20.3 cm) SL-10, 15, 20 and 25 models	2
17	32873	Shaft - Input	1
18	32867	Frame and Drum Support	1
19	32868	Bushing, 0.75 inch I.D.	2
20	32869	Gear - Pinion Shaft, 24 Tooth	1

This parts list continues on page 7-35.

FIGURE 7-M

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FIGURE 7-M

Index	Part No.	Description	Quantity This Figure
21	32870	Gear - Pinion Shaft, 12 Tooth	1
22	6200	Retaining Ring, 0.75 inches	1
23	32871	Key - Woodruff, No. 403	2
24	32872	Pinion Shaft	1
25	7590	Pinion Gear	1
26	7571	Friction Disk	2
27	6777	Ratchet Gear	1
28	7591	Pinion Plate	1
29	7598	Spacer - Pinion Shaft	1
30	23415	Nut - Low Profile Lock, 1/2 -13	2
31	12460	Screw - HHC, 1/2 -13 x 6.5 inches, GR 5	1
32	40117	Ratchet Kit	1
33	Ref.	Winch Drum (not available as service part)	—

Distributed By:

Genie North America
Phone 425.881.1800
Toll Free USA and Canada
800.536.1800
Fax 425.883.3475

Genie Australia Pty Ltd.
Phone +61 7 3375 1660
Fax +61 7 3375 1002

Genie China
Phone +86 21 53852570
Fax +86 21 53852569

Genie Malaysia
Phone +65 98 480 775
Fax +65 67 533 544

Genie Japan
Phone +81 3 3453 6082
Fax +81 3 3453 6083

Genie Korea
Phone +82 25 587 267
Fax +82 25 583 910

Genie Brasil
Phone +55 11 41 665 755
Fax +55 11 41 665 754

Genie Holland
Phone +31 183 581 102
Fax +31 183 581 566

Genie Scandinavia
Phone +46 31 575100
Fax +46 31 579020

Genie France
Phone +33 (0)2 37 26 09 99
Fax +33 (0)2 37 26 09 98

Genie Iberica
Phone +34 93 579 5042
Fax +34 93 579 5059

Genie Germany
Phone 0800 180 9017
Phone +49 422 149 1818
Fax +49 422 149 1820

Genie U.K.
Phone +44 (0)1476 584333
Fax +44 (0)1476 584334

Genie Mexico City
Phone +52 55 5666 5242
Fax +52 55 5666 3241

Parts & Service Manual
Superlift Advantage

*(from serial number 9594-101 to 5501-15094
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